SANYO

FILE NO.

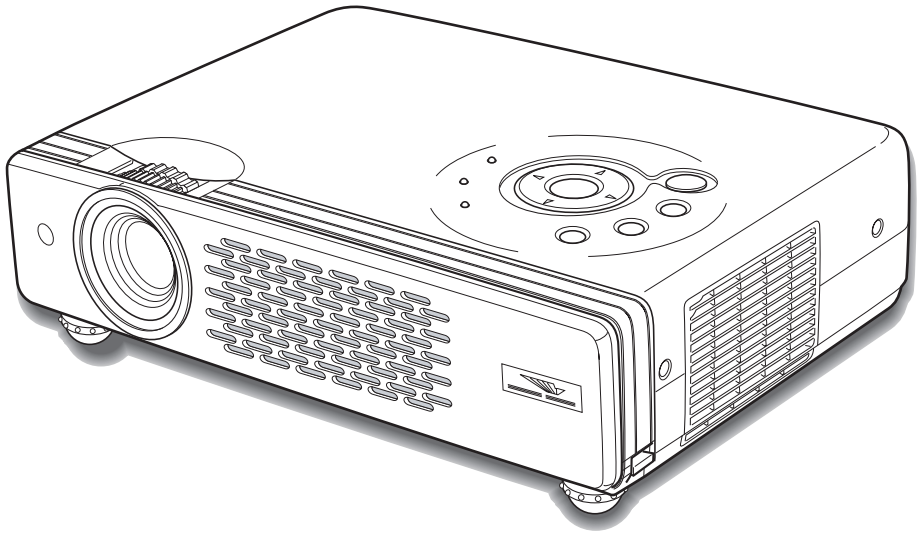
SERVICE MANUAL

Multimedia Projector

Model No. PLC-XU41

U.S.A., Canada,
Europe, Asia, Africa
U.K.

Original Version



Chassis No. MY7-XU4100

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

PRODUCT CODE
1 122 257 00 (MY7A)
1 122 258 00 (PY7A)
1 122 258 02 (PY7C)

REFERENCE NO. SM5110646-00

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SAFETY PRECAUTIONS

WARNING:
The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line (⎓) in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.
Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages(2kV - 3kV) at its starts.
Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

■ Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	11.73" x 2.8" x 8.43 (298mm x 71mm x 214mm) (Not including adjustable feet)
Net Weight	6.0 lbs (2.7kgs)
Feet Adjustment	0˚ to 11.8˚

Panel Resolution

LCD Panel System	0.8" TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 ~ 100 KHz, V-sync. 50 ~ 100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 33" to 100"
Projection Lens	F 1.7 ~ 2.1 lens with f 26.7 mm ~ 32.0 mm with manual zoom and focus
Throw Distance	4.3' ~ 32.8' (1.3m ~ 10.0m)
Projection Lamp	200W

Interface

Video Input Jacks	RCA Type x 1 (Video) and Mini DIN 4 pin x 1 (S-Video)
Audio Input Jacks	RCA Type x 2
Computer Input1/ Component Input Terminal	(VGA) HDB15 Terminal X 1
Computer Input 2/ Monitor Output Terminal	(VGA) HDB15 Terminal X 1 (In / Out switcheable)
Computer/ Component Audio Input Jacks	Mini Jack (stereo) x 1
Service Port Connector	Mini DIN 8 pin x 1
USB Connector	USB Series B receptacle x 1
Audio Output Jack	Mini Jack (stereo) x 1 (Variable)

Audio

Internal Audio Amp	1.0W RMS
Built-in Speaker	1 speaker, ø1.1" (28mm)

Power

Voltage and Power Consumption	AC 100 ~ 120 V (3.2 A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada)
	AC 200 ~ 240 V (1.6 A Max. Ampere), 50 / 60 Hz (Continental Europe and The U.K.)

Operating Environment

Operating Temperature	41 ˚F ~ 95 ˚F (5 ˚C ~ 35 ˚C)
Storage Temperature	14 ˚F ~ 140 ˚F (-10˚C ~ 60 ˚C)

Remote Control

Power Source	AAA, SUM4 or R03 Type x 2
Operating Range	16.4' (5m) / ±30˚
Dimensions	2.0" x 0.91" x 4.8" (51.5mm x 23.2mm x 123mm)
Net Weight	2.11 oz (60 g) (including batteries)

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

c UL US LISTED

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

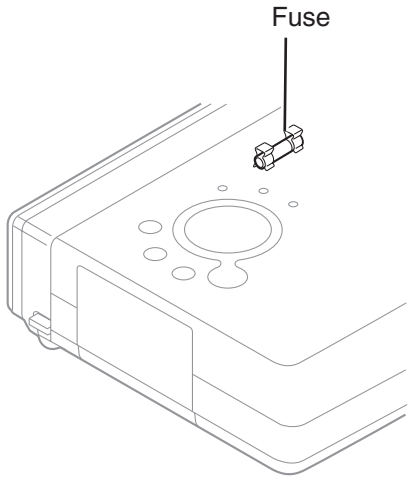
■ Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

● Fuse

A fuse is located inside of the projector. When the POWER indicator is not lightning, the fuse may be opened. Check the fuse as following steps.
The fuse should be used with the following type;

Fuse Part No.: 423 021 7801
TYPE T6.3AH 250V FUSE
LITTLE FUSE INC. TYPE 21506.3

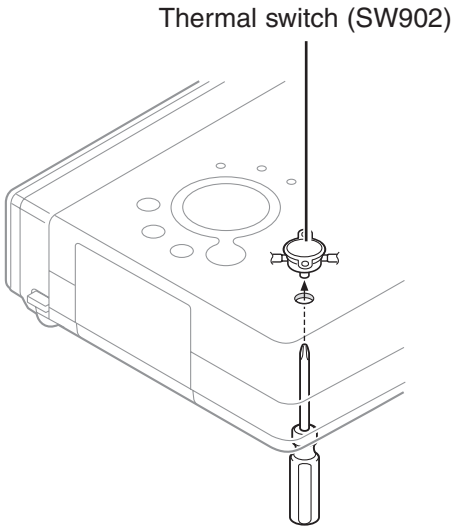


Fuse replacing steps

1. Remove the cabinet top and cabinet front following to "Mechanical Disassemblies".
2. Replace the new one with the specified type.

● Thermal switch

There is the thermal switch (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 90˚C, it cuts off the AC main power supply .
The thermal switch cannot be reset itself automatically even if the internal temperature becomes normal. Reset the thermal switch following to the below procedure.



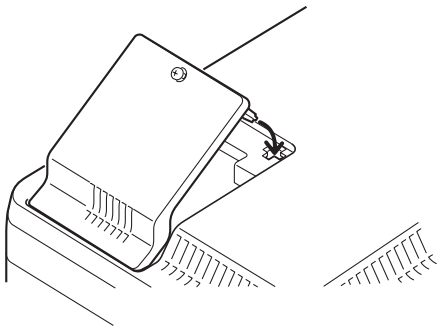
How to reset the thermal switch

1. Insert the sharp tool like a screwdriver into a hole on the cabinet bottom.
2. Press the reset button on the thermal switch with the screwdriver.

CAUTION:
Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.

● Lamp cover switch

The lamp cover switch (SW901) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



● Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.

- If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter “Power supply & protection circuit” in the Chassis Block Diagram section.

Possible causes

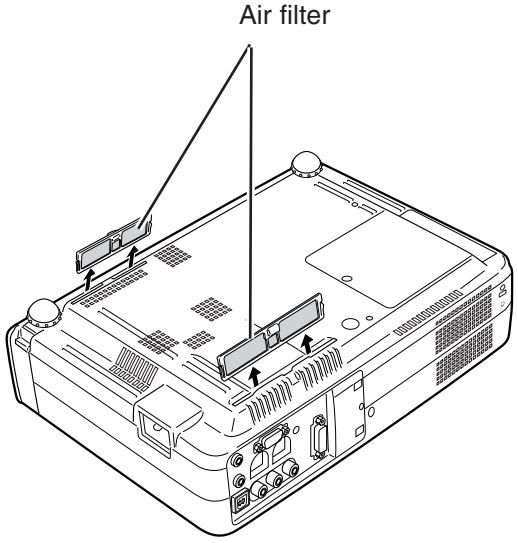
- Air filters are clogged with dust particles. Remove dust from the air filters by following instructions in the “Air filter care and cleaning” below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 ˚C or 41 to 95˚F)

Air filter care and cleaning

The removable air filter prevents dust from accumulation on the surface of the projection lens and projection mirror. Should the air filter become clogged with dust particles, it will reduce the cooling fan’s effectiveness and may result in internal heat build up and reduce the life of the projector.

To clean up the air filters, follow the cleaning procedure below:

1. Turn the power off, and disconnect the AC power cord from the AC outlet.
2. Turn the projector up side down and remove air filters by pulling the latches of it upward.
3. Clean the air filters with brush or wash out the dust and particles.
4. Replace the air filters properly. Make sure that the air filters are fully inserted.



CAUTION:

Do not operate the projector with the air filters removed. Dust may accumulate on the LCD panel and the projection mirror degrading picture quality.
Do not put small parts into the air intake vents. It may result in malfunction of the projector.

RECOMMENDATION

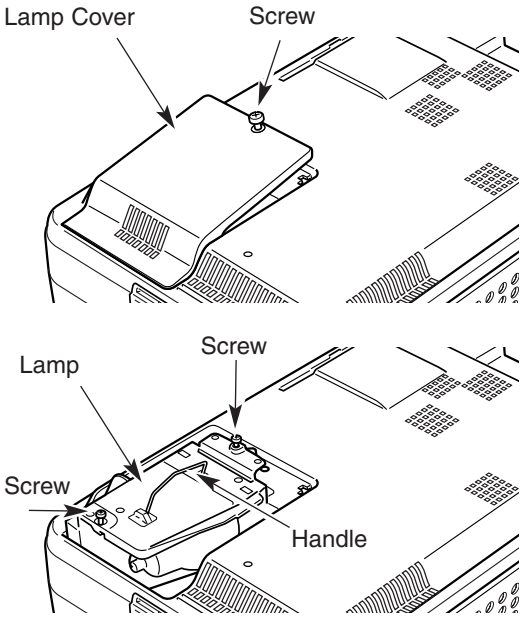
We recommend not to use the projector in dusty, smoky places. Using it in dusty place may cause the poor picture quality.
When using under the dusty or smoky conditions, dust may accumulate on the LCD panel and lens inside it, and may resultantly be projected on the screen together with the picture.
When the above symptoms are noticed, please clean up the LCD panel and lens following to the “Cleaning Method”.

■ Lamp Replacement

WARNING:
- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

ORDER REPLACEMENT LAMP

Type No.	Service Parts No.
POA-LMP79	610 315 5647



Procedure

1 Turn off the projector and disconnect the AC cord. Allow the projector to cool for at least 45 minutes.
2 Loosen 1 screw with a screwdriver and remove the lamp cover.
3 Loosen 2 screws and pull out the lamp assembly by grasping the handle.
4 Replace the lamp with a new one and tighten the 2 screws back into position. Make sure that the lamp is set properly. Replace the lamp cover and tighten the screw.
5 Connect the AC cord to the projector and turn on.
6 **Reset the Lamp Replace Counter, see below explanation**.

Note:
- The projector cannot be turned-on with lamp cover removed, because when the lamp cover is removed, the lamp cover switch is also released to switch off the lamp circuit.

How to reset Lamp Replace Counter

1 Turn the projector on, press the **MENU** button and the On-Screen Menu will appear. Press the **Point Left/Right** button to move the red frame pointer to the Setting Menu icon.
2 Press the **Point Down** button to move the red frame pointer to the Lamp counter reset item and then press the **SELECT** button. The message "Lamp replace counter Reset?" is displayed. Move the pointer to [Yes] and then press the **SELECT** button.
3 Another confirmation dialog box appears and select [Yes] to reset the Lamp replace counter.

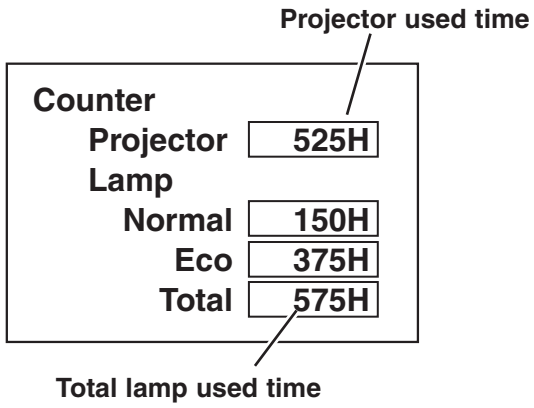
Recommendation

Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced.
Refer to "Air Filter Cleaning".

How to check Lamp used time

The LAMP REPLACE indicator will light yellow when the total lamp used time reaches 3000 hours. This is to indicate that lamp replacement is required.
The total lamp used time is calculated by using the below expression,
Total lamp used time = **T***eco* + **T***normal* (1+1/2)
T*eco*: used time in the Eco mode
T*normal* : used time in the Normal mode

You can check the lamp used time following to the below procedure.
1 Press and hold the **POWER ON-OFF** button on the projector for more than 20 seconds.
2 The projector used time and lamp used time will be displayed on the screen briefly as follows.



■ Mechanical Disassemblies

Mechanical disassemble should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.
Caution:
The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T type	M Type

1 Cabinet Top, FN901 removal

1 Remove 3 screws **A** (M3x8), 2 screws **B** (M3x6) and pull the Cabinet Top upward off.
2 Loosen a hook **C** and remove 2 screws **D** (M2.5x6), disconnect terminal "K6J" on the Main Board and then pull the fan duct ass'y upward off.
3 Remove 2 screws **E** (T3x6) and remove fan "FN901".

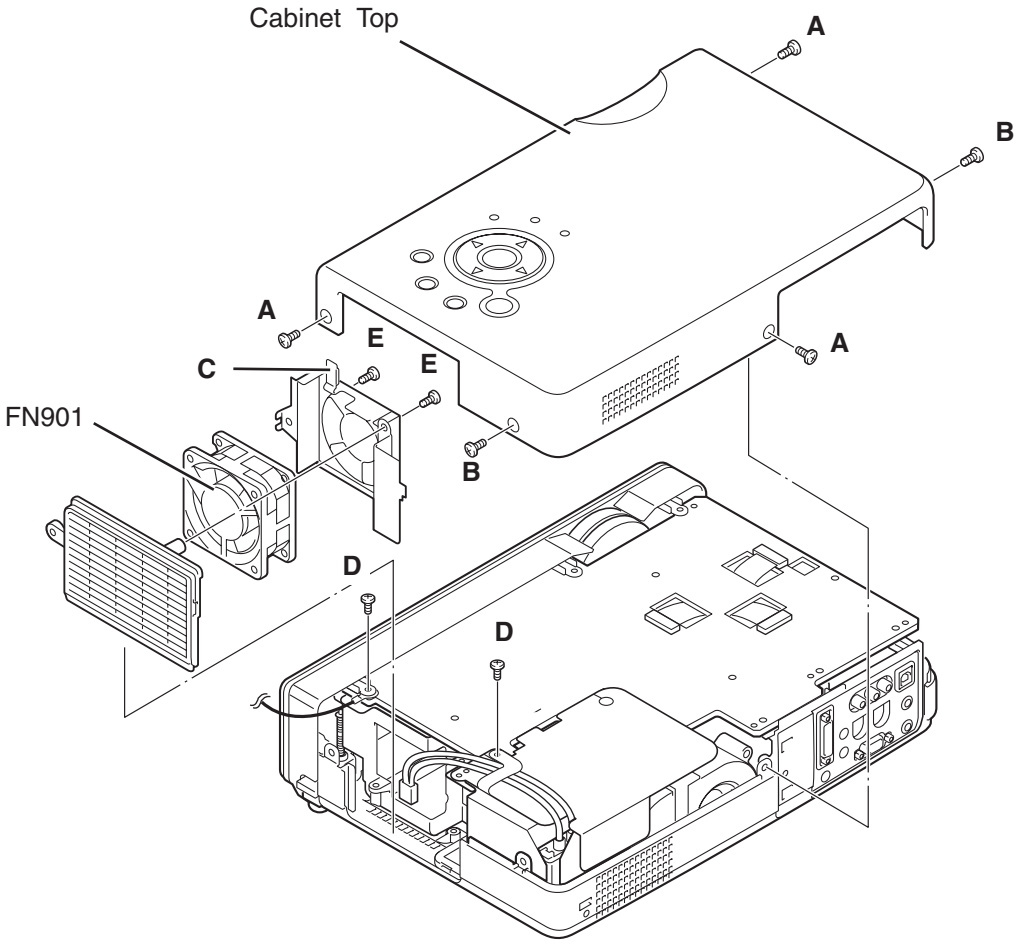


Fig.1

2 Cabinet Front, R/C Board, FN902 removal

1 Remove 2 screws **A** (M3x8), 2 screws **B** (M2.5x6) and disconnect terminal "K8D" on the Main Board.
2 Pull the Cabinet Front forward off and remove 1 screw **C** (T3x6) to take the R/C Board off.
3 Disconnect terminal "K8P" on the Main Board and remove fan "FN902".

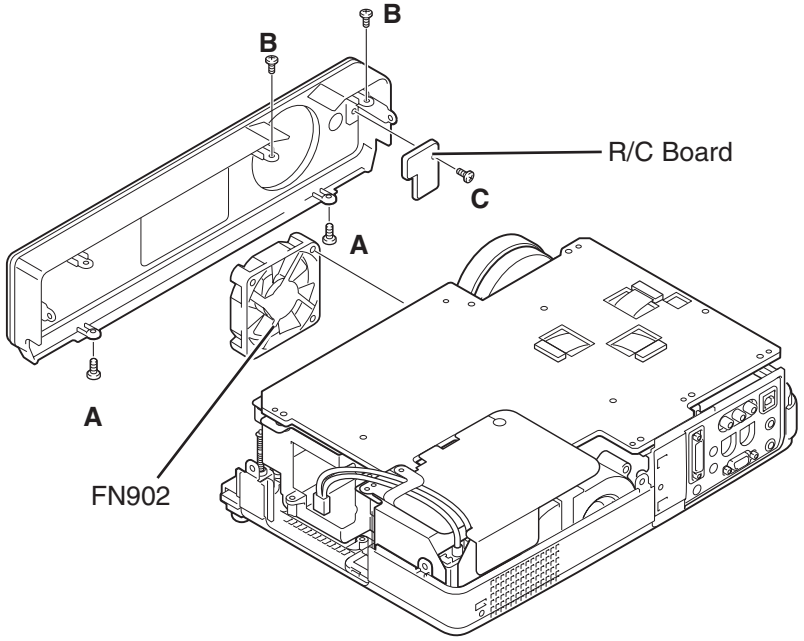


Fig.2

3 Main Board removal

1 Remove 7 screws **A** (M2.5x6) and 1 screw **B** (M2.5x6).
2 Remove a shield cover (black) and disconnect terminals "K8N", "K6L", K8H", "K8R", "K8S", "K25B", "K25G", "K25R", "K6K" and "K6M" on the Main Board.
3 Remove main board upward off.

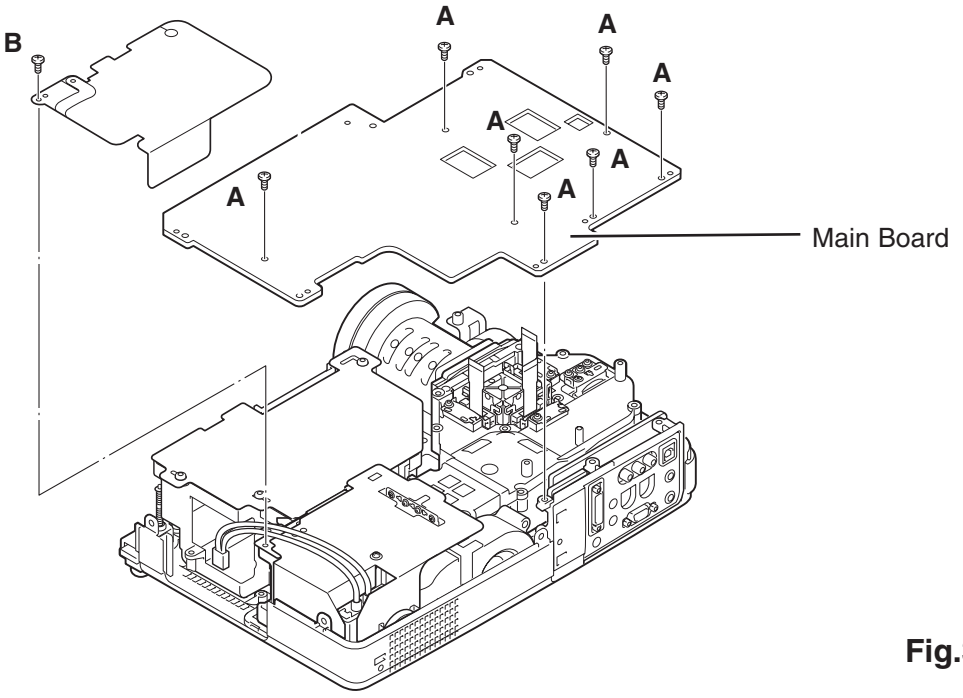


Fig.3

4 Speaker and AV Board removal

1 Pull the speaker “SP901” upward off from the speaker groove.
2 Remove 1 screw **A** (M4x6) to release grounding wires.
3 Pull the Rear Panel ass’y upward off.
4 Remove 5 screws **B** (T3x6) and remove the AV Board.

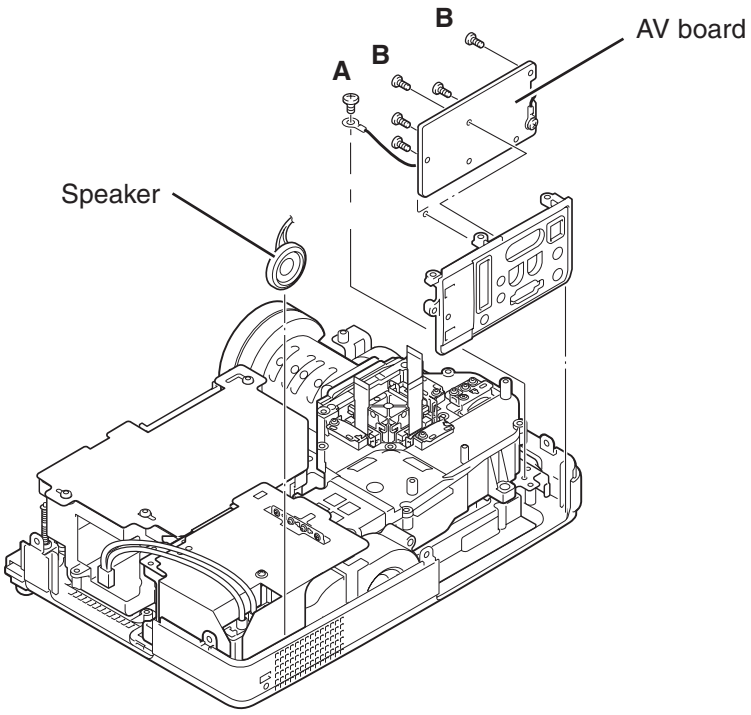


Fig.4

5 Optical Unit removal

1 Remove 6 screws **A** (T3x8) and screw **B** (M3x8) and disconnect a socket **C** on the lamp house.
2 Pull the Optical Unit upward off from the cabinet bottom.

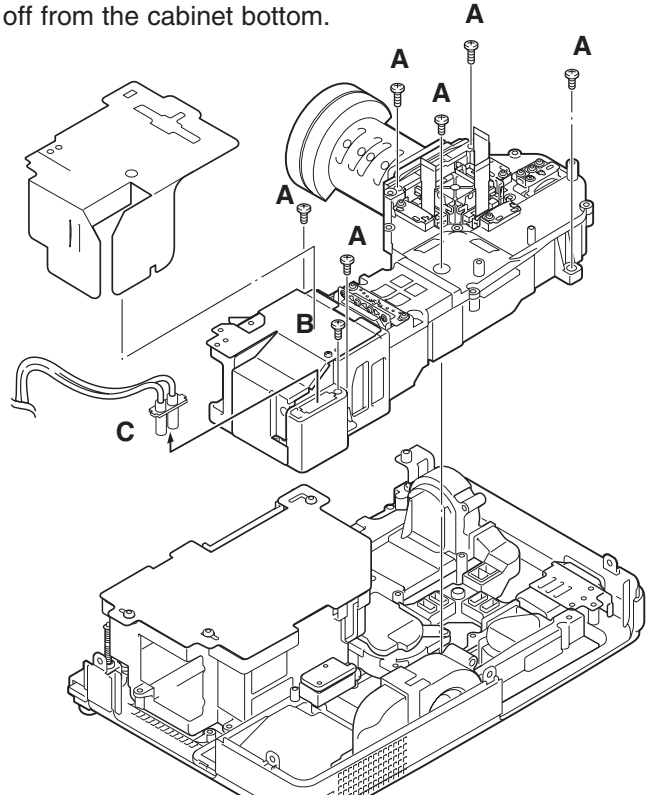


Fig.5

6 Power , Lamp Ballast, Lamp Cover SW Board removal

1 Remove the isolation plate on the power box.
2 Remove 4 screws **A** (T3x6) and disconnect terminals "K6A", "K6B" and "K6D" then remove Power Board upward.
3 Remove 4 screws **B** (T3x6) and remove the Lamp Ballast Board upward.
4 Remove 2 screws **C** (M2.5x6) and remove the Lamp Cover SW Board.
5 Remove 4 screws **D** (T3x8) and pull the power box bottom upward.

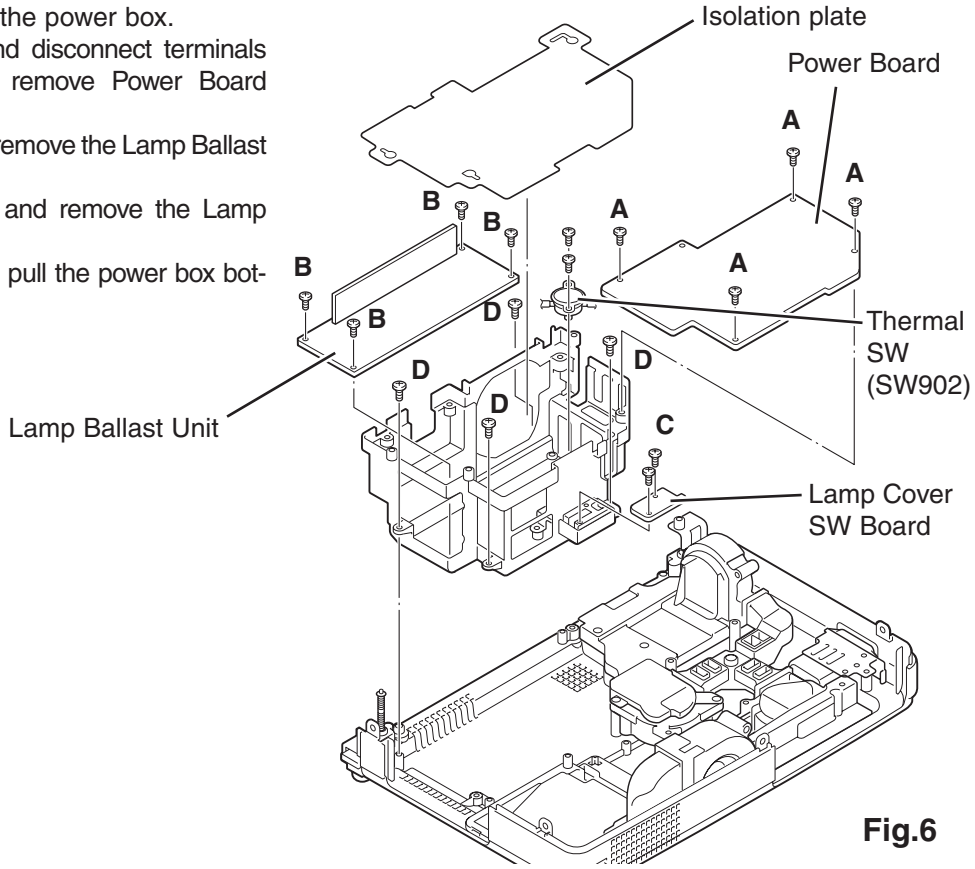


Fig.6

7 Fans removal

1 Remove 1 screw **A** (T3x8) and remove fan "FN903".
2 Remove 4 screws **B** (T3x8) and 2 screws **C** (T3x10), and take the fan cover-A and fan "FN904".
3 Remove 1 screw **D** (T3x8) and take the fan duct-A and fan "FN906".
4 Remove 1 screw **E** (T3x8), 2 screws **F** (T3x10) and take the fan cover-B and fan "FN905".

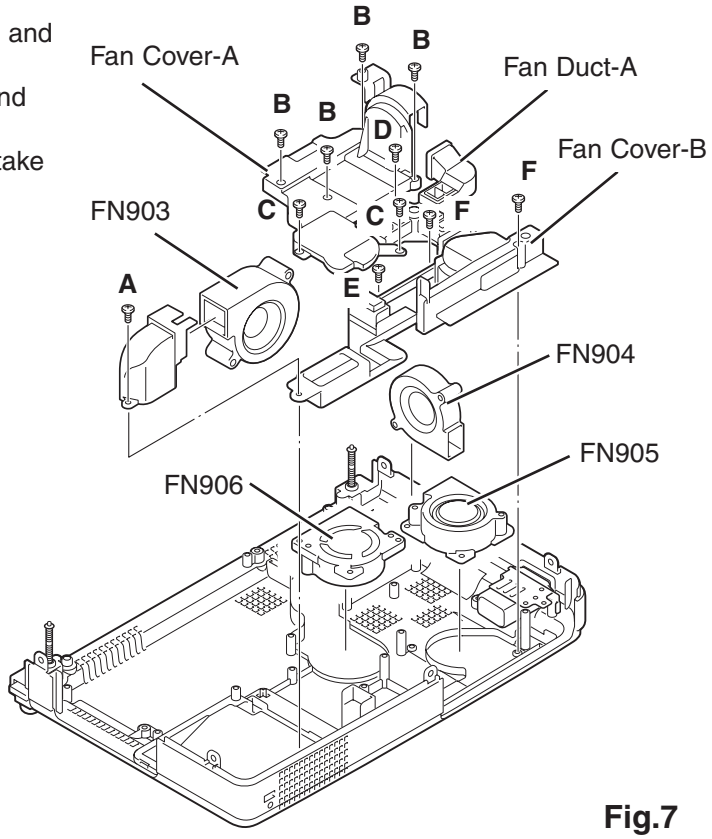


Fig.7

■ Optical Parts Disassemblies

Before taking this procedure, remove Cabinet Top , Cabinet Front and Main Board following to the “Mechanical Disassemblies”.
Disassembly requires a 2.0mm hex wrench.

1 Projection Lens removal

1 Remove 4 screws (M2.5x8) and remove the Projection Lens.

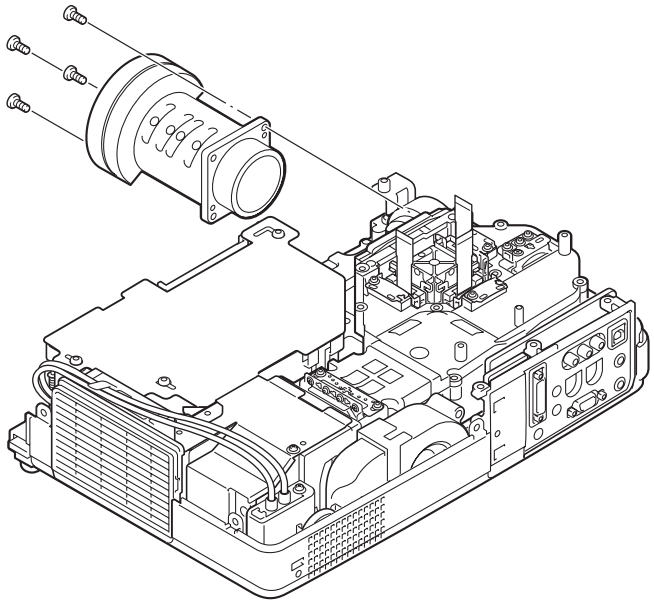


Fig.1

2 Integrator Lens-In disassembly

1 Remove 2 screws **A** (M2.5x5) and pull the Integrator Lens-In ass’y upward.
2 Unhook 4 stoppers **B** and then take the Lens off from the holder.

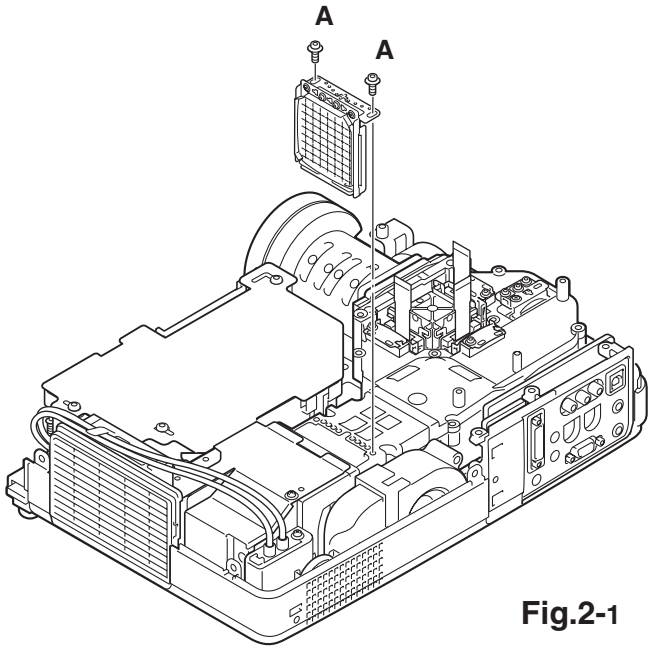
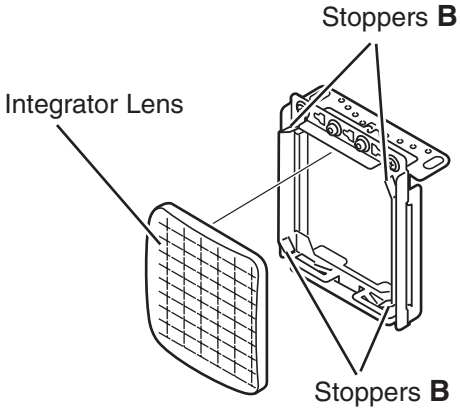


Fig.2-1



* Lens should be placed as the rugged surface side comes to the holder side.

Fig.2-2

3 Relay Lens-Out disassembly

1 Remove 2 screws **A** (M2.5x5) and pull the Relay Lens-Out ass'y upward.
2 Remove 2 screws **B** (M2x3) to take the Lens off from the holder.
Note:
There is no mounting direction of the lens.

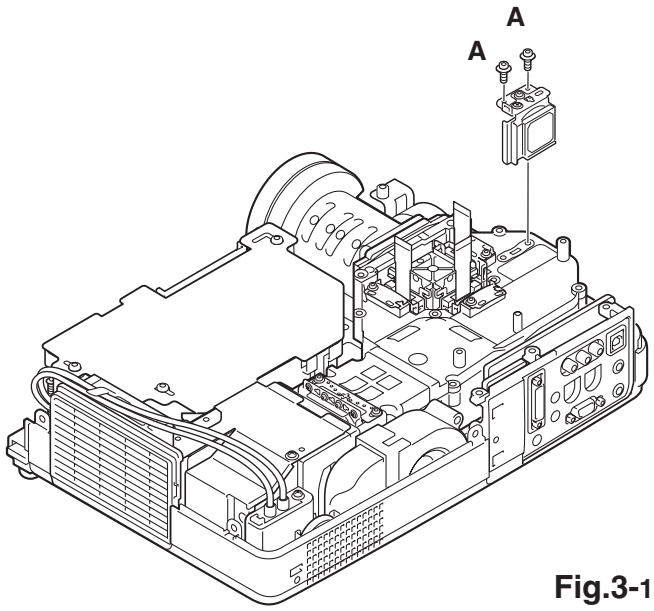


Fig.3-1

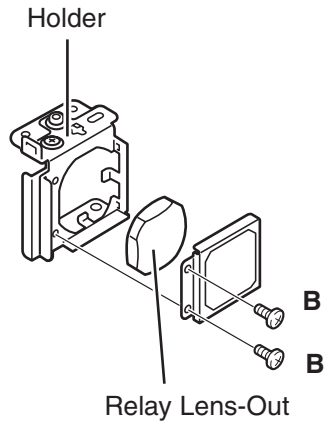


Fig.3-2

4 Polarized Glass-In removal

1 Remove each screw (M2.5x5) and pull the Polarized Glass-In ass'y upward.
2 Unhook the stoppers and take the glass off upward.

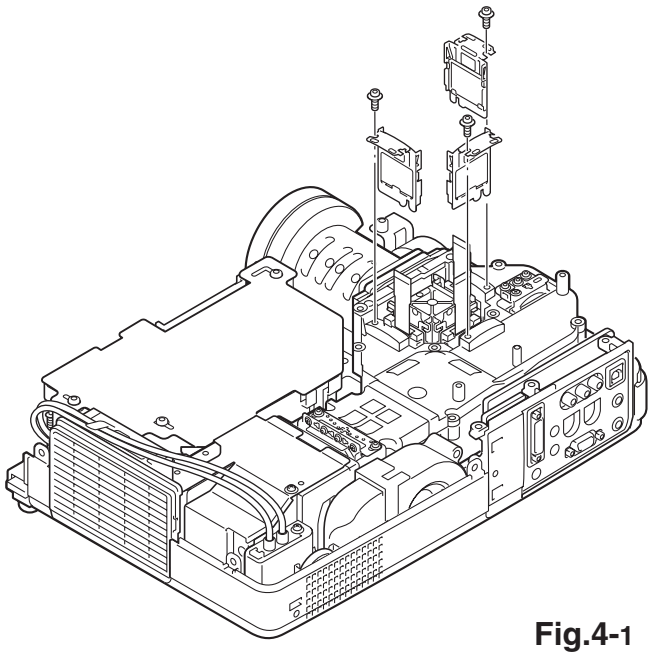
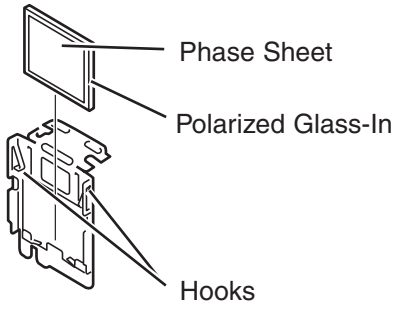


Fig.4-1



* Should be places the glass as the film attached side comes to the prism side.

Fig.4-2

5 LCD Panel/Prism Ass'y removal

1 Insert the hexial driver into a hole on the cabinet bottom and loosen 1 screw **A** on the Prism base.
2 Loosen 2 screws **B** on the LCD Panel/Prism ass'y.
3 Pull the LCD Panel/Prism ass'y upward off from the optical unit.

Note:
Do not remove the LCD panels from the Prism ass'y. Do not replace the LCD panel separately otherwise it cannot obtain proper picture.

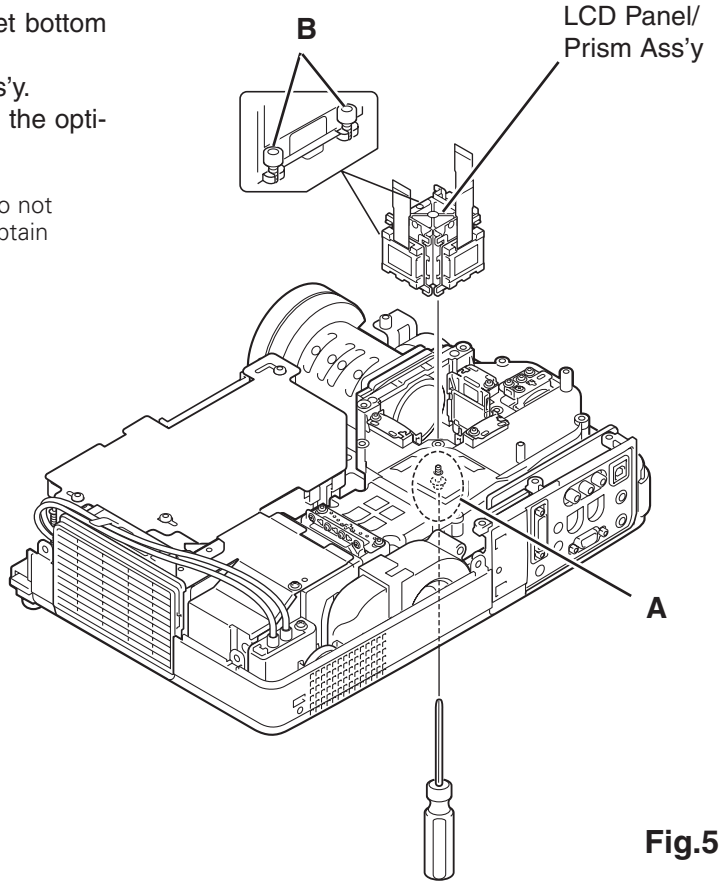


Fig.5

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
- Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance Adjustment" , "Gamma Adjustment" and "Common Centre Adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.
  If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "Color Shading Correction". The software will be supplied separately and can be ordered as follows;

COLOR SHADING CORRECTION Ver. 3.03
Service Parts No. 645 066 7428

6 Polarized Glasses-Out removal

1 Remove 1 screw **A** and remove the holder **A** and loosen 2 screws **B** then take the polarized glasses (R) and (B).
2 Remove 1 screw **C** and remove the stopper **B** and then take the polarized glass (G).

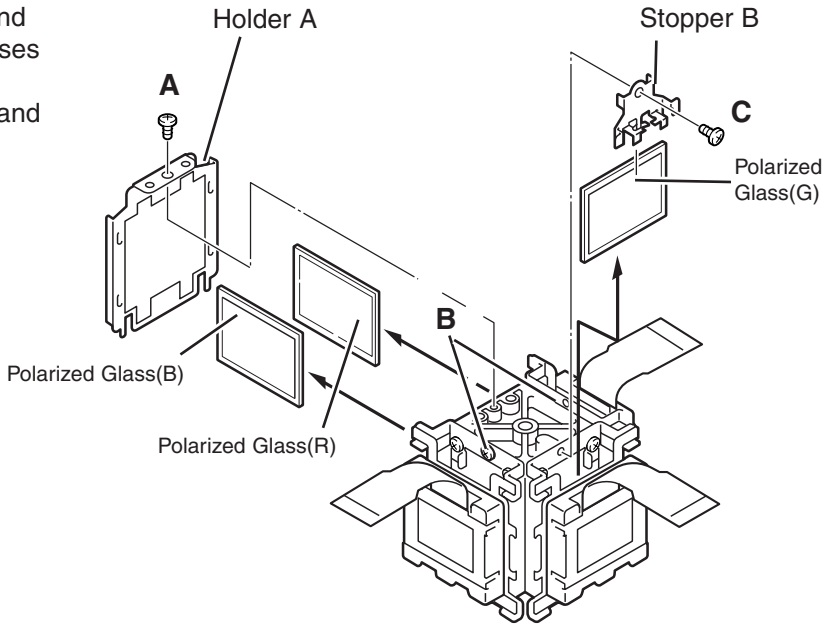


Fig.6

* Mount the polarized glasses as the film attached side comes to the LCD panel side.

7 Optical Unit Top removal

1 Remove 4 screws **A** (T3x8) and 3 screws **B** (T3x8) to take the Optical Unit Top-A and B upward.

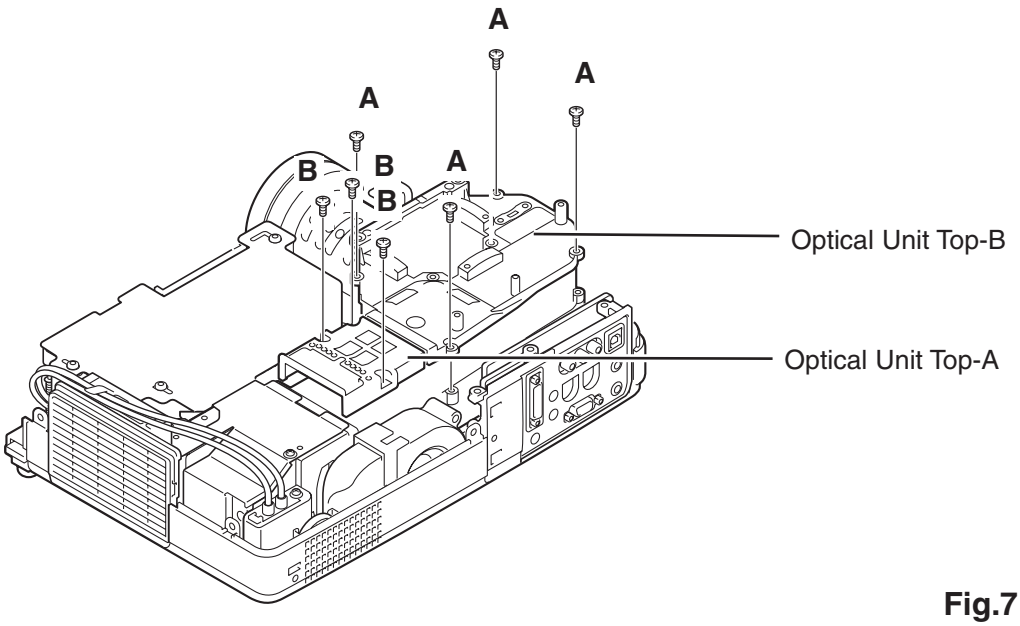


Fig.7

8 Locations and Directions

When the optical parts in the optical unit mounting or assembling, the parts must be mounted in the specified location and direction as shown in figure below.

Key No.	Description
1	Integrator lens (OUT)
2	Prism beam splitter (PBS)
3	Condenser lens (OUT)
4	Dichroic mirror (B)
5	Dichroic mirror (G)
6	Condenser lens
7	Relay lens (IN)
8	Mirror (R)
9	Condenser lens (R)
10	Condenser lens (B)
11	Mirror (B)
12	Optical filter (UV cut)

The arrows in the figure indelicate the mount direction of the part for the replacement. Check the number on the arrows and mount each part according to its note;
A: The printed part no. comes to this side.
B: The printed part no. comes to the bottom side.
C: The printed part no. comes to this side.
D: The printed part no. comes to the top side and the number can be read from the arrow direction.
E: The cutting corner comes to this side up.

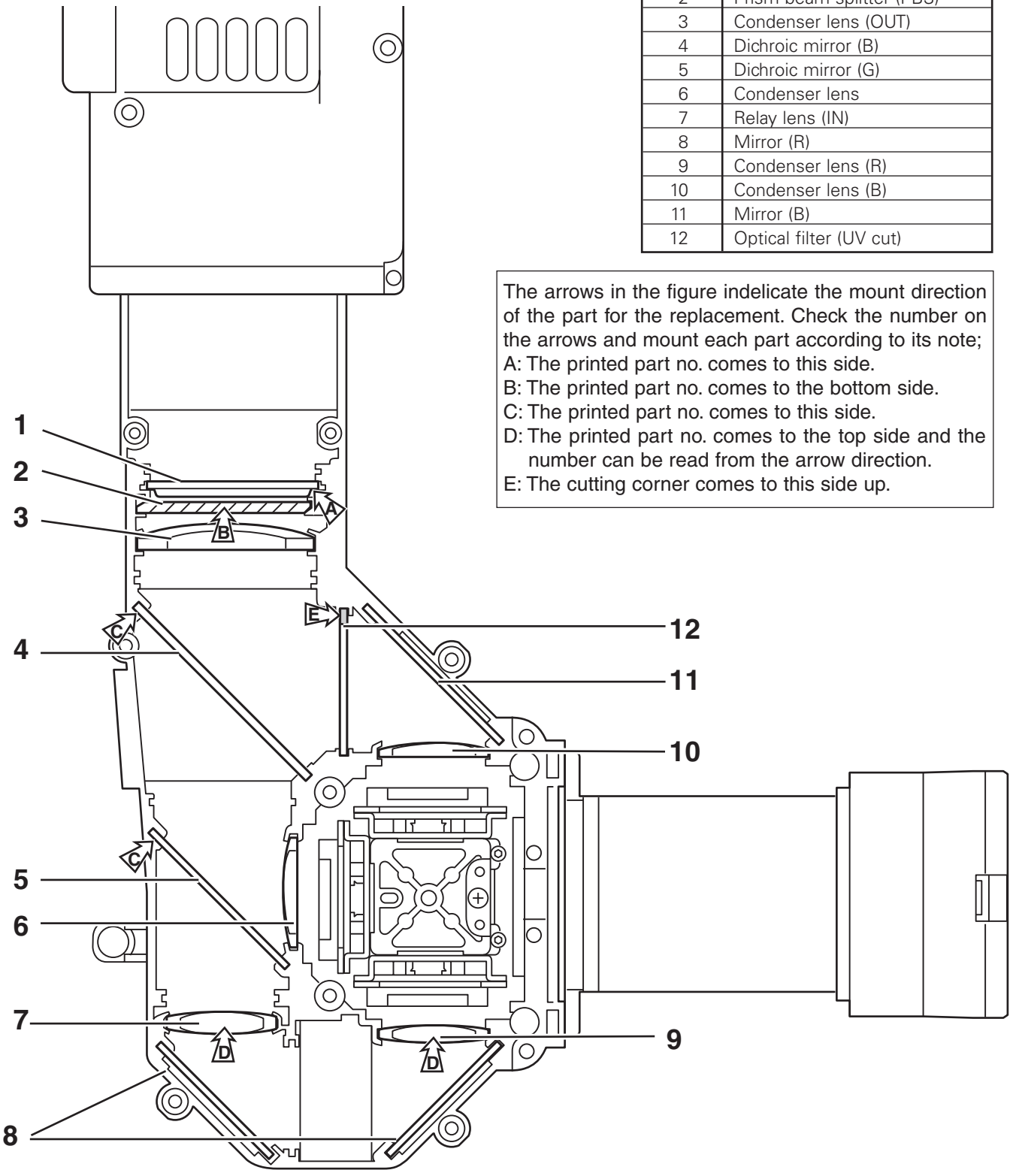


Fig.8

■ Adjustments

● Turning On the Projector

If the PIN code is set on the projector, you cannot start operating the projector. The PIN code can be reset to the factory default setting (1234) according to the following procedure.

When you reset the PIN code, the Logo PIN code and key lock will be reset, as well.

1. Disconnect the AC power cord from the AC outlet.
2. As pressing the SET button on the projector, connect the AC power cord into an AC outlet again. Keep pressing the SET button until the POWER indicator lights.
3. Enter the PIN code "1234" (the factory default setting).

Please refer to the owners manual for further information.

● Adjustments after Parts Replacement

● : Adjustment necessary ❍ : Check necessary

		Disassembly / Replaced Parts							
		LCD/ Prism Ass'y	Integrator Lens (OUT)	Relay Lens (OUT)	Polarized glass			Power Board	Main Board
					R	G	B		
Optical Adjustments	Contrast Adjustment								
	R-Contrast adjustment				●				
	G-Contrast adjustment					●			
	B-Contrast adjustment						●		
	Integrator lens adjustment	❍	●						
	Relay lens-out adjustment	❍		●					
Electrical Adjustments	Fan control adjustment								●
	Pedestal adjustment								●
	Gain adjustment								●
	Video center adjustment								●
	Black reference adjustment								●
	Common center adjustment	●							●
	Gamma adjustment	●							●
	White balance adjustment	❍							❍
	White uniformity adjustment	❍							❍

■ Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the “Mechanical Disassemblies”.
When you adjust Integrator lens or Relay lens adjustment, you need to disconnect FPC cables of LCD panels on the main board.
Optical adjustment requires a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.

Contrast adjustment

[Before Adjustment]
- Input a 100% of black raster signal.

1 Loosen a screw **A** (**Fig.1-1/1-2**) on the polarized glass mounting base which you intend to adjust.
2 Turn the polarized glass mounting base as shown in **Fig.1-1** to obtain the darkest brightness on the screen.
3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.

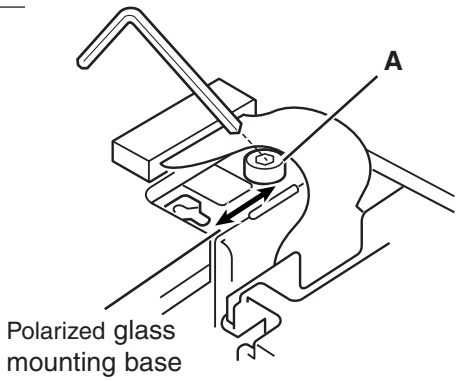


Fig.1-1

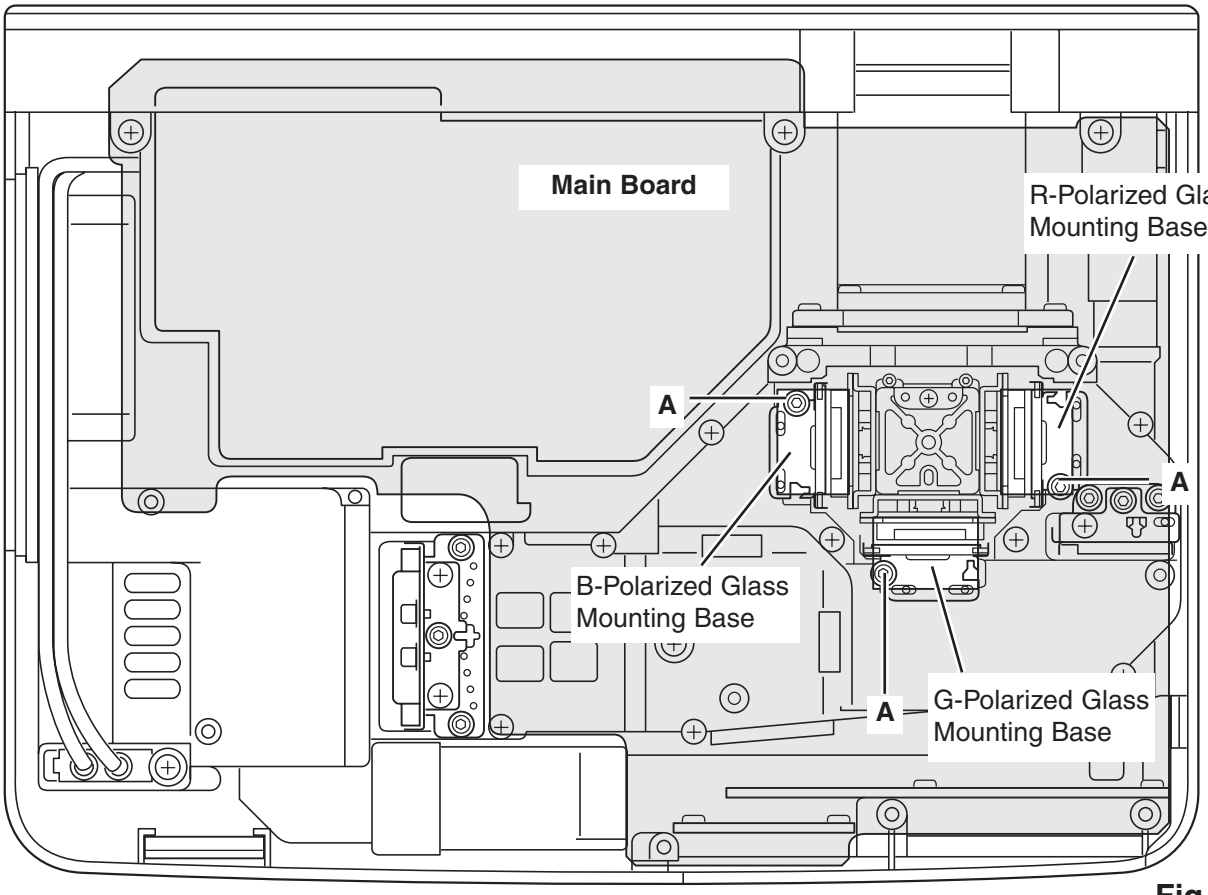
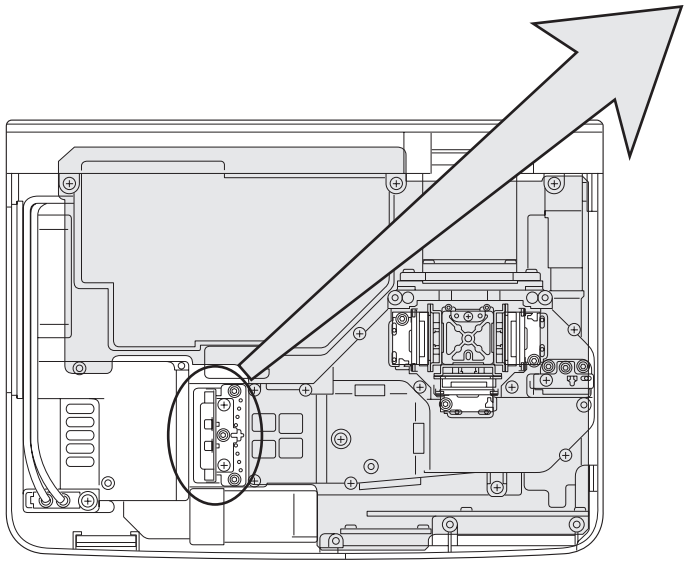


Fig.1-2

Integrator lens adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of integrator lens assy to make color uniformity in white.
1) If the shading appears on the left or right of the screen as shown in **Fig.2-1**, loosen 2 screws **A** , and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
2) If the shading appears on the top or bottom of the screen as shown in **Fig.2-2**, loosen 2 screws **C**, and adjust the slot **D** to make color uniformity in white by using a slot screwdriver
4 Tighten screws **A** and **C** to fix the Integrator lens unit.

Note:
The relay lens adjustment must be carried out after completing this adjustment.



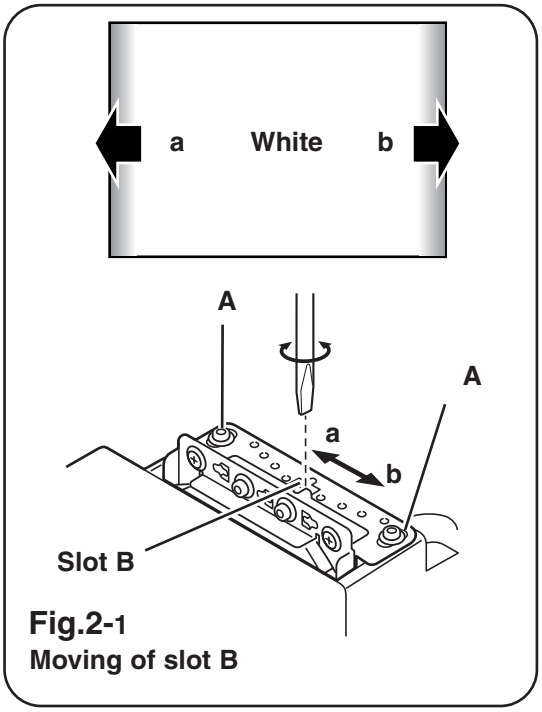


Fig.2-1
Moving of slot B

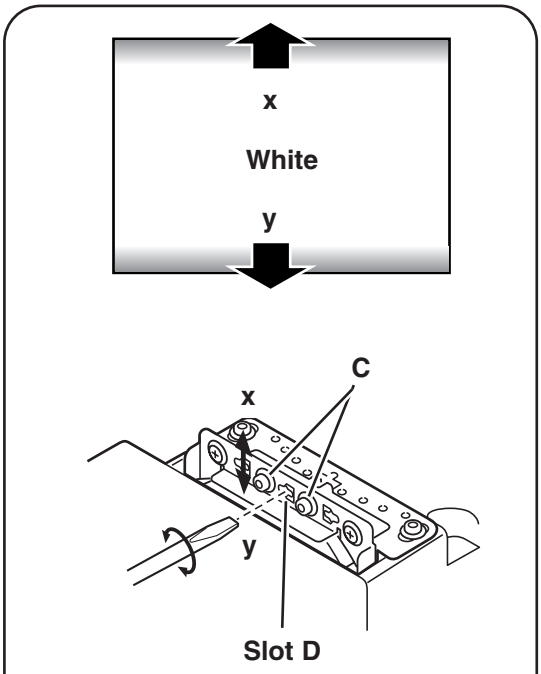
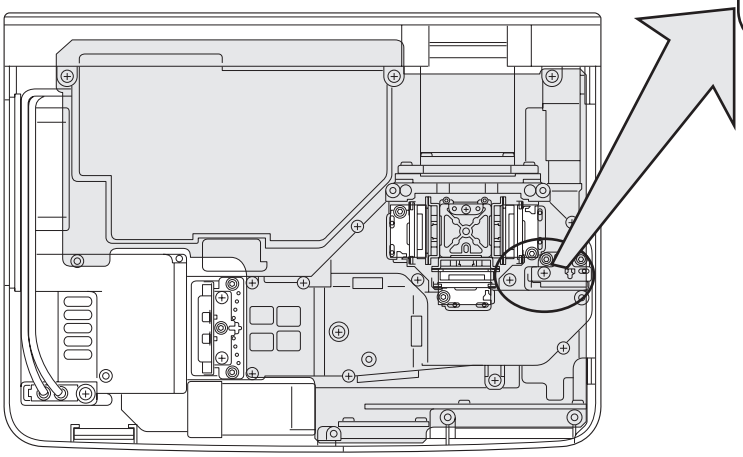


Fig.2-2
Moving of Slot D

Relay lens-Out adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of relay lens assy to make color uniformity in white.
If the shading appears on the left or right of the screen as shown in **Fig.3**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
4 Tighten the screw **A** to fix the relay lens unit.



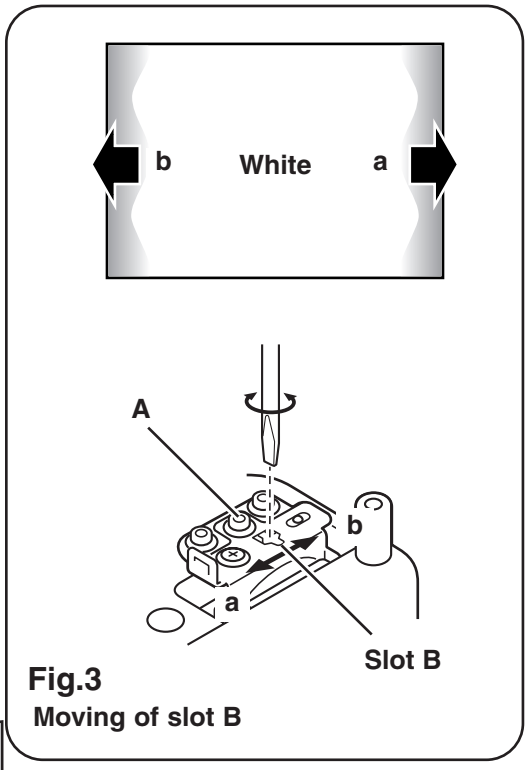


Fig.3
Moving of slot B

■ Electrical Adjustments

● Service Adjustment Menu Operation

To enter the service mode

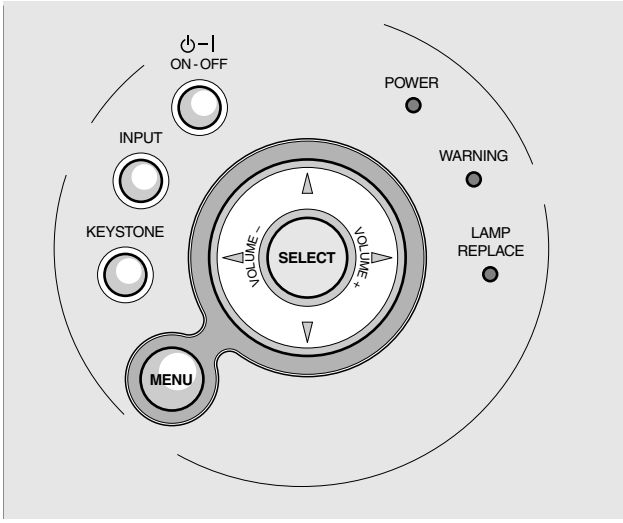
To enter the “Service Mode”, press and hold the **MENU** and **INPUT buttons** on the projector at the same time for more than 3 seconds. The service menu appears on the screen as follows.

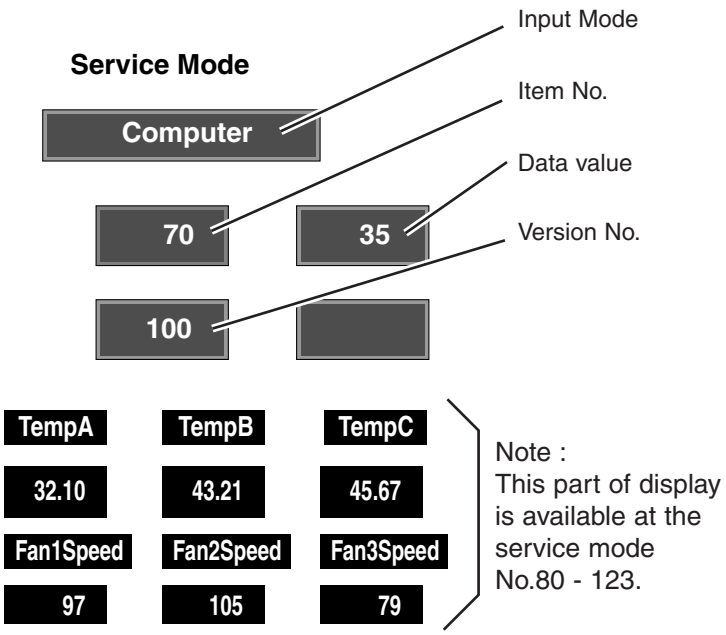
To adjust service data

Select the adjustment item no. by pressing the pointer **UP** or **DOWN button**, and change the data value by pressing the **VOLUME –** or **VOLUME + button**. Refer to the “Service Adjustment Data Table” for further description of adjustment item no. and data value.

To exit the service mode

To exit the service mode, press the **POWER ON-OFF button** on the projector or remote control unit.





● Memory IC Replacement

IC1841 on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.
If replaced, the re-adjustments are required following to the “Electrical Adjustments”.
The data of lamp replacement counter is stored in the IC1841.
Please note that the lamp replace counter will be reset when the memory IC (IC1841) is replaced.
(Lamp replace counter cannot be set to the previous value.)

● Caution to memory IC replacement

When IC1841 is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
Please note that in this case the lamp replace counter will be reset.

● Caution of Main Board replacement (in the case IC1841 is not defective)

When the main board is replaced, IC1841 should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
In this case, the lamp replace counter can be kept the value as before.

● Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

[Adjustment Condition]

● Input signal

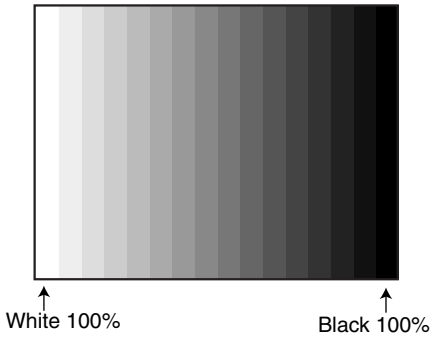
Video signal ..... 1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)

Computer signal ..... 0.7Vp-p/75Ω terminated, 16 steps gray scale pattern

Component Video signal ..... 0.7Vp-p/75Ω terminated, 16 steps gray scale (Component video signal with 480p, 575p, 720p or 1080i format)

● Picture control mode ..... "STANDARD" mode unless otherwise noted.

16 steps gray scale pattern



Note:

* Please refer to "Service Adjustment Menu Operation" for entering the service mode and adjusting the service data.

Output Voltage adjustment

After replacing the Power Board readjust the Output voltage adjustment as follows.

1. Connect a digital voltmeter to pins 1 (+) and 3 (-) of **K6D**.
2. Adjust the voltage by using **VR611** as following.

AC Input	Reading
230V	380V ±2V

Caution:
Be sure to connect the lamp when taking this adjustment.

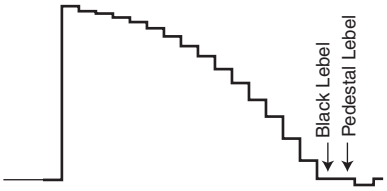
* This adjustment is not required even if the power board is replaced because this adjustment is carried out before parts shipment.

1 Fan Control adjustment

1. Set the lamp mode to "Normal" and then enter the service mode.
2. Connect a digital voltmeter to test point "**TPFANB**" (+) and chassis ground (-). Select item no. "**81**" and change data value to adjust voltage to be **6.0** ±0.1V.
3. Connect a digital voltmeter to test point "**TPFANC**" (+) and chassis ground (-). Select item no. "**82**" and change data value to adjust voltage to be **6.0** ±0.1V.
4. Connect a digital voltmeter to test point "**TPFANB**" (+) and chassis ground (-). Select item no. "**84**" and change data value to adjust voltage to be **13.5** ±0.1V.
5. Connect a digital voltmeter to test point "**TPFANC**" (+) and chassis ground (-). Select item no. "**85**" and change data value to adjust voltage to be **13.5** ±0.1V.

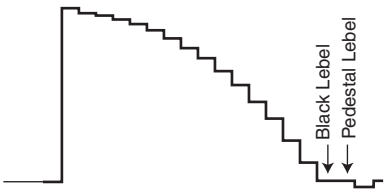
2 Pedestal adjustment (PC)

1. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPVIDEOG**" (+) and chassis ground (-).
4. Select item no. "**203**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TPVIDEOR**" (+) and chassis ground (-).
6. Select item no. "**204**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TPVIDEOB**" (+) and chassis ground (-).
8. Select item no. "**205**" and change data value to adjust the pedestal level and black level to be the same level.



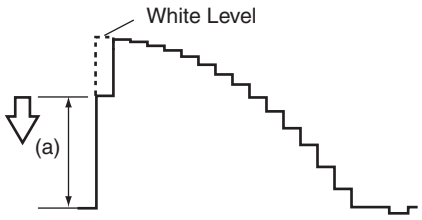
3 Pedestal adjustment (AV-Component)

1. Receive the 16-step gray scale 1080i component video signal with **Computer1 [Component]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPVIDEOG**" (+) and chassis ground (-).
4. Select item no. "**203**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TPVIDEOR**" (+) and chassis ground (-).
6. Select item no. "**204**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TPVIDEOB**" (+) and chassis ground (-).
8. Select item no. "**205**" and change data value to adjust the pedestal level and black level to be the same level.



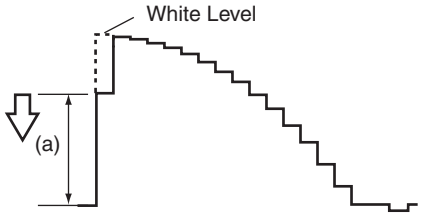
4 Gain adjustment (PC)

1. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPVIDEOG**" (+) and chassis ground (-).
4. Select item no. "**7**" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TPVIDEOR**" (+) and chassis ground (-).
6. Select item no. "**8**" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TPVIDEOB**" (+) and chassis ground (-).
8. Select item no. "**9**" and adjust the amplitude "a" to be minimum by changing the Data value.



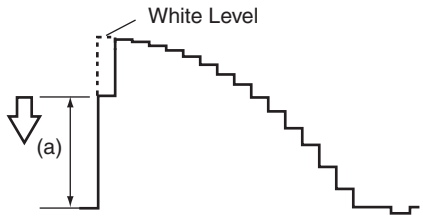
5 Gain adjustment (AV-Video)

1. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPVIDEOG**" (+) and chassis ground (-).
4. Select item no. "**7**" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TPVIDEOR**" (+) and chassis ground (-).
6. Select item no. "**8**" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TPVIDEOB**" (+) and chassis ground (-).
8. Select item no. "**9**" and adjust the amplitude "a" to be minimum by changing the Data value.



6 Gain adjustment (Component-1080i)

1. Receive the 16-step grey scale 1080i component video signal with **Computer1 [Component]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPVIDEOG**" (+) and chassis ground (-).
4. Select item no. "**7**" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TPVIDEOR**" (+) and chassis ground (-).
6. Select item no. "**8**" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TPVIDEOB**" (+) and chassis ground (-).
8. Select item no. "**9**" and adjust the amplitude "a" to be minimum by changing the Data value.

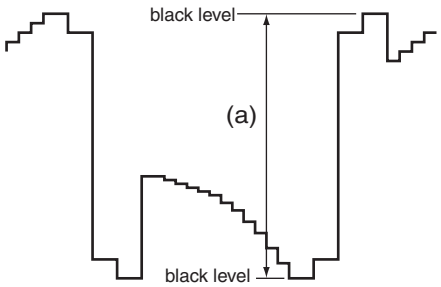


7 Video Center adjustment

1. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode
3. Connect a digital voltmeter to test point "**TPGV1**" (+) and chassis ground (-).
4. Select item no. "**1**" and change data value to adjust the voltage to be **7.0** ±0.05V.
5. Connect a digital voltmeter to test point "**TPRV1**" (+) and chassis ground (-).
6. Select item no. "**2**" and change data value to adjust the voltage to be **7.0** ±0.05V.
7. Connect a digital voltmeter to test point "**TPBV1**" (+) and chassis ground (-).
8. Select item no. "**3**" and change data value to adjust the voltage to be **7.0** ±0.05V.
9. Connect a digital voltmeter to test point "**TPGV2**" (+) and chassis ground (-).
10. Select item no. "**21**" and change data value to adjust the voltage to be **8.0** ±0.05V.
11. Connect a digital voltmeter to test point "**TPRV2**" (+) and chassis ground (-).
12. Select item no. "**22**" and change data value to adjust the voltage to be **8.0** ±0.05V.
13. Connect a digital voltmeter to test point "**TPBV2**" (+) and chassis ground (-).
14. Select item no. "**23**" and change data value to adjust the voltage to be **8.0** ±0.05V.

8 Black Reference adjustment

1. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPVIDEOG**" (+) and chassis ground (-).
4. Select item no. "**10**" and change data value to adjust amplitude "a" to be **9.8** ±0.1V.
5. Connect an oscilloscope to test point "**TPVIDEOR**" (+) and chassis ground (-).
6. Select item no. "**11**" and change data value to adjust amplitude "a" to be **9.8** ±0.1V.
7. Connect an oscilloscope to test point "**TPVIDEOB**" (+) and chassis ground (-).
8. Select item no. "**12**" and change data value to adjust amplitude "a" to be **9.8** ±0.1V.



9 Common Center adjustment

1. Receive the 1 line black/white pattern computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Project only green light component to the screen.
4. Select item no. "**13**" and change data value to obtain the minimum flicker on the screen.
5. Project only red light component to the screen.
6. Select item no. "**14**"" and change data value to obtain the minimum flicker on the screen.
7. Project only blue light component to the screen.
8. Select item no. "**15** and change data value to obtain the minimum flicker on the screen.

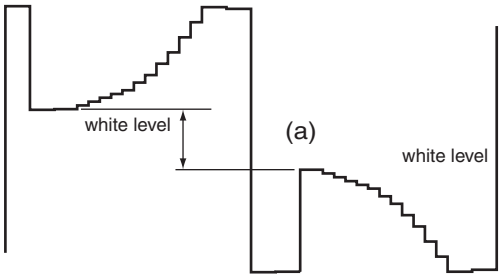
10 Gamma adjustment

[PC-GAMMA ADJUSTMENT]

1. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPVIDEOG**" (+) and chassis ground (-).
4. Select item no. "**16**" and change data value to adjust amplitude "a" to be **1.6** ±0.1V.

[AV-GAMMA ADJUSTMENT]

1. Receive the 16-step grey scale video signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPVIDEOG**" (+) and chassis ground (-).
4. Select item no. "**16**" and change data value to adjust amplitude "a" to be **1.9** ±0.1V.



11 White Balance adjustment

[PC WHITE BALANCE ADJUSTMENT]

1. Receive the 16-step gray scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode, select item no. "**17**" (Red) or "**18**" (Blue), and change Data values respectively to make a proper white balance.

[AV WHITE BALANCE ADJUSTMENT]

1. Receive the 16-step gray scale composite video signal with **Video [Video]** mode.
2. Enter the service mode, select item no. "**17**" (Red) or "**18**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

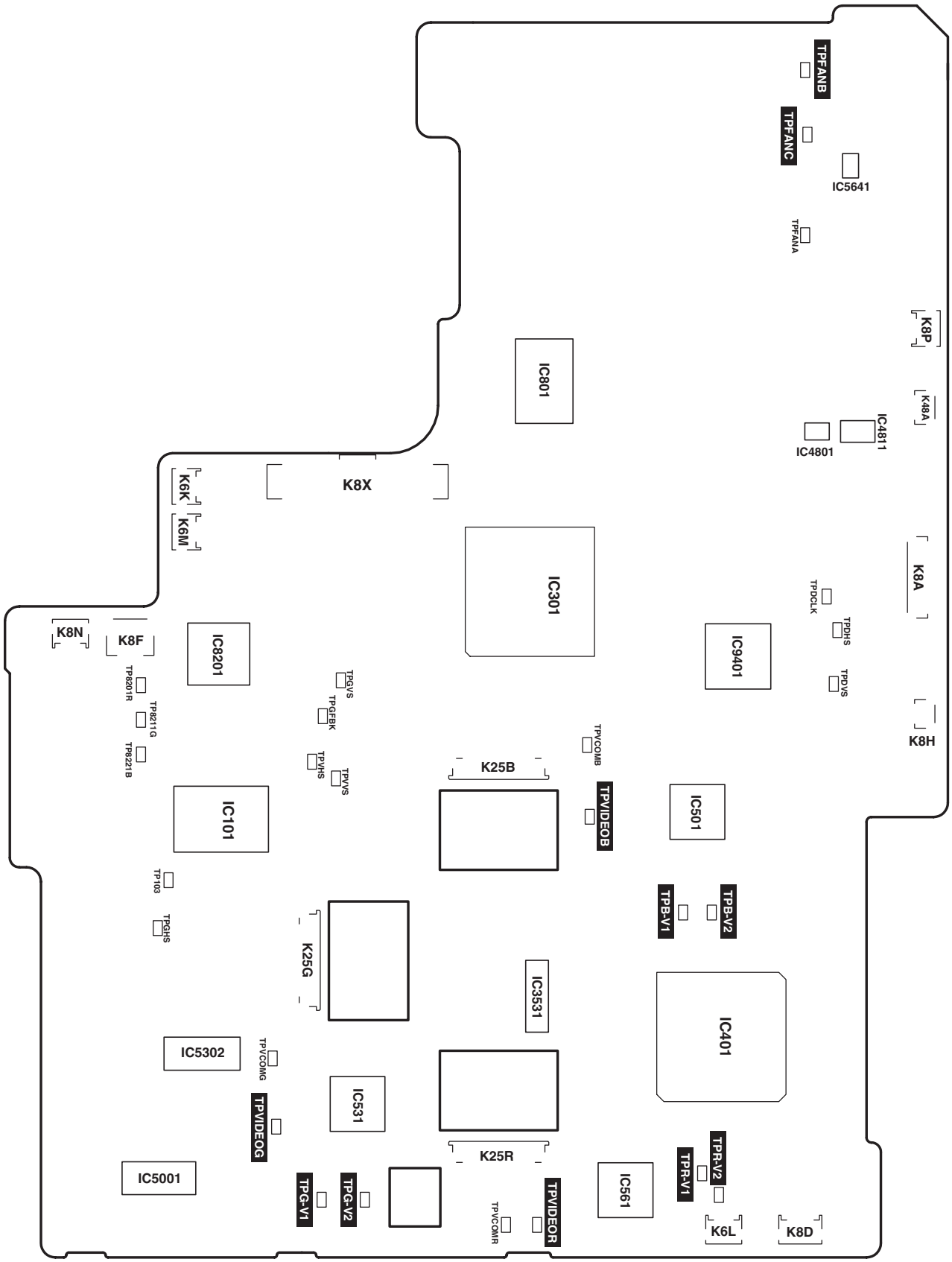
NOTE ON WHITE UNIFORMITY ADJUSTMENT

If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately.
The software can be ordered as follows;

COLOR SHADING CORRECTION ver. 3.03
Service Parts No. 645 066 7428

● Test Points and Locations

MAIN BOARD



● Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with "✻" are required to readjust following to the "Electrical adjustments". Other items should be used with the initial data value.

ItemNo.	Name	Device	Initial					Detail
			PC	YCbCr		Video		
				480i(+)	480p(+)	NTSC	PAL	Note: 480i(+) = 480i & 575i, 480p(+) = 480p & HDTV
1	G-VIDEOCNT	M62392FP			181			
2	R-VIDEOCNT	M62392FP			181			✻ Video Center Adjustment (= R/G/B-V1)
3	B-VIDEOCNT	M62392FP			181			
4	R-Sub-Bright	L3E7070K0A			0			
5	G-Sub-Bright	L3E7070K0A			0			Sub-Bright Adjustment
6	B-Sub-Bright	L3E7070K0A			0			
7	G-Sub-Gain	L3E7070K0A	560	530	530	530	530	
8	R-Sub-Gain	L3E7070K0A	560	530	530	530	530	✻ Gain Adjustment
9	B-Sub-Gain	L3E7070K0A	560	530	530	530	530	
10	REF-G	M62392FP			196			
11	REF-R	M62392FP			196			✻ Black Reference Adjustment
12	REF-B	M62392FP			196			
13	GVCOM	L3E6100D0A			170			
14	RVCOM	L3E6100D0A			170			✻ Common Center Adjustment
15	BVCOM	L3E6100D0A			170			
16	G-Gamma-Shift	L3E7070K0A	512	512	512	512	512	✻ Gamma Adjustment
17	R-Gamma-Shift	L3E7070K0A	512	512	512	512	512	✻ White Balance Adjustment [R]
18	B-Gamma-Shift	L3E7070K0A	512	512	512	512	512	✻ White Balance Adjustment [B]
19								
20								
21	G-V2	M62392FP			190			
22	R-V2	M62392FP			190			✻ Video Center Adjustment (Link to Item No.1-3)
23	B-V2	M62392FP			190			
24	SubBright	PW168	128	128	128	128	128	
25	SubColor	PW168	85	85	85	N/A		
26	SubTint	PW168	128	128	128	N/A		
27	-							
28	SubBright (Video)	VPC3230	N/A	Note 1	N/A	128	127	Note 1: 575i = the same as PAL
29	SubCont (Video)	VPC3230	N/A	Note 1	N/A	50	51	
30	SubColor (Video)	VPC3230	N/A	Note 1	N/A	2300	2450	
31	SubTint (Video)	VPC3230	N/A	Note 1	N/A	512	512	
32	SubBright (480i,575i)	VPC3230	N/A	199	N/A	196	197	
33	SubCont (480i,575i)	VPC3230	N/A	25	N/A	26	26	
34	SubColor (480i,575i)	VPC3230	N/A	38	N/A	23	23	Note 2: 480i = the same as NTSC
35	SubColor (480i,575i)	VPC3230	N/A	38	N/A	29	29	575i = the same as PAL
36	-							
37	V-Line Color Shading Correction Setting (R1)	L3E7070K0A			2			Vertical Line Color Shading Correction
38	V-Line Color Shading Correction Setting (R2)	L3E7070K0A			1			
39	V-Line Color Shading Correction Setting (R3)	L3E7070K0A			254			
40	V-Line Color Shading Correction Setting (G1)	L3E7070K0A			2			
41	V-Line Color Shading Correction Setting (G2)	L3E7070K0A			1			
42	V-Line Color Shading Correction Setting (G3)	L3E7070K0A			254			
43	V-Line Color Shading Correction Setting (B1)	L3E7070K0A			2			
44	V-Line Color Shading Correction Setting (B2)	L3E7070K0A			1			
45	V-Line Color Shading Correction Setting (B3)	L3E7070K0A			254			
46	R-Reference voltage (H)	L3E7070K0A			819			
47	R-Reference voltage (L)	L3E7070K0A			252			
48	G-Reference voltage (H)	L3E7070K0A			819			
49	G-Reference voltage (L)	L3E7070K0A			252			
50	B-Reference voltage (H)	L3E7070K0A			819			
51	B-Reference voltage (L)	L3E7070K0A			252			
52	Color Shading Correction ON/OFF	L3E7070K0A			1			
53	Lamp Life Time				0			Read only
54	Baud Rate				1			0: 9600 / 1: 19200 / 2: 38400
55	Shoot Out Mode				0			0: Normal / 1: Shoot out 1
56	Forced NOBRAND				0			0: Normal / 1: NOBRAND
57	LongCable				0			0:(Low)Normal 1:(High) Long Cable
58	Normal/Eco Switch				0			0:Normal Fixed 1:Eco Fixed
59	VSBEG	PW168			1			Vertical Bound Correction
60	Ghost/Crosswalk	L3E07070			15			
61	Ghost Correction G	L3E07070			10			
62	Ghost Correction B	L3E07070			10			
63	Ghost Correction R	L3E07070			10			
64	TFT Panel Driver Enable G	L3E07070			22			
65	TFT Panel Driver Enable B	L3E07070			22			
66	TFT Panel Driver Enable R	L3E07070			22			
	FAN CONTROL							
80	Fan1 Min. Adjust	M62393FP			5			
81	Fan2 Min. Adjust	M62393FP			5			✻ Fan Control Adjustment

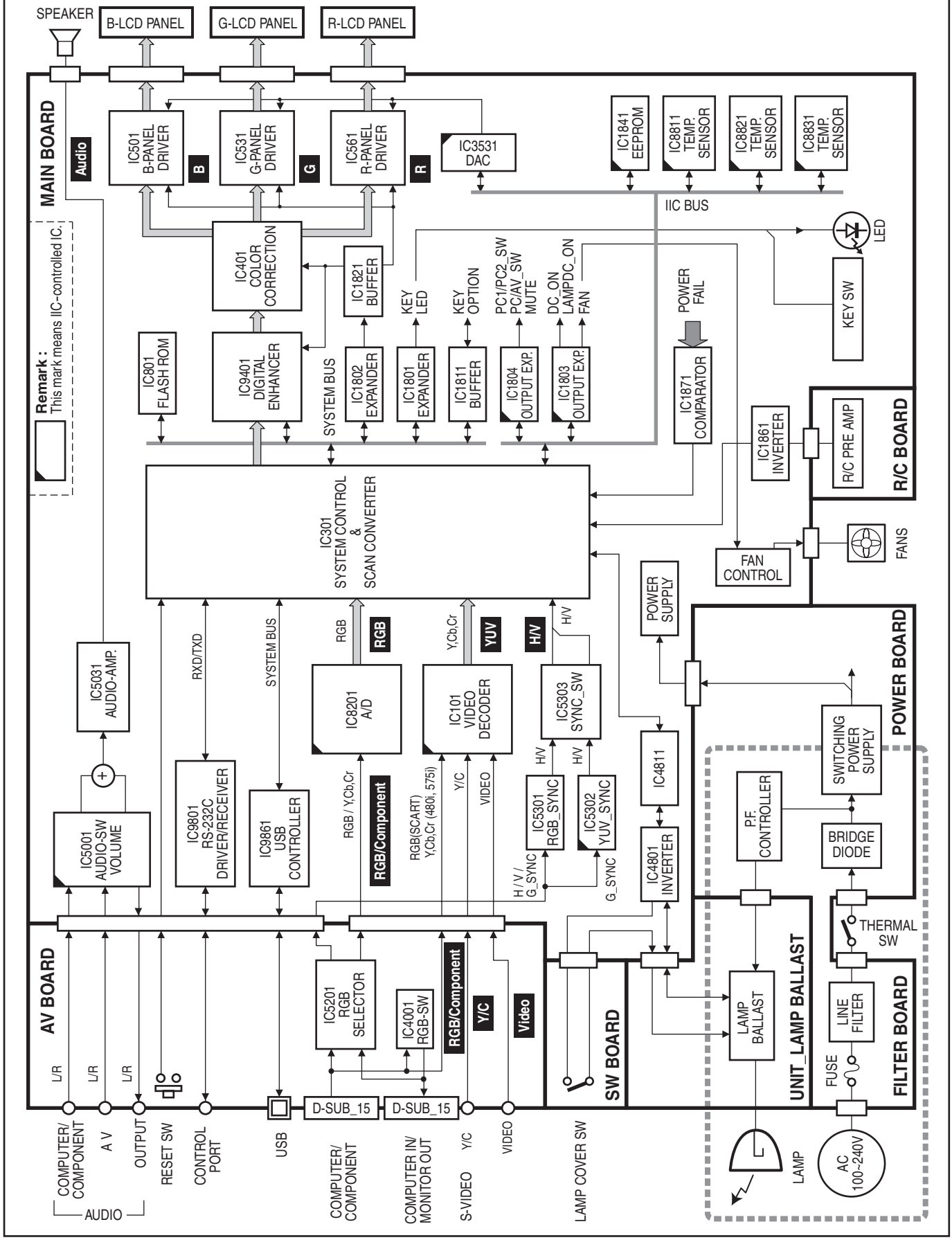
ItemNo.	Name	Device	Initial					Detail
			PC	YCbCr		Video		
				480i(+)	480p(+)	NTSC	PAL	Note: 480i(+) = 480i & 575i, 480p(+) = 480p & HDTV
82	Fan3 Min. Adjust	M62393FP	5					✻ Fan Control Adjustment
83	Fan1 Max. Adjust	M62393FP	229					
84	Fan2 Max. Adjust	M62393FP	229					✻ Fan Control Adjustment
85	Fan3 Max. Adjust	M62393FP	229					✻ Fan Control Adjustment
86	Fan Control Mode		0					0: Normal 1:High Land
87	Error Temp Change Time		1					in minutes
			Normal		Ceiling	HighLand		
88	Fan1 Min		65		65	65		Lowest Fan Operation Voltage in Normal
89	Fan2 Min		88		88	95		
90	Fan3 Min		70		70	80		
91	Fan1 Max		125		125	125		Highest Fan Operation Voltage in Normal
92	Fan2 Max		135		135	135		
93	Fan3 Max		135		135	135		
94	TempA Low		43		43	41		Operation Start in Normal for Temp Sensor 1
95	TempA High		53		53	48		Operation Stop in Normal for Temp Sensor 1
96	Eco Fan1 Min		60		60	60		Lowest Fan Operation Voltage in Eco
97	Eco Fan2 Min		80		80	90		
98	Eco Fan3 Min		65		65	75		
99	Eco Fan1 Max		115		115	115		Highest Fan Operation Voltage in Eco
100	Eco Fan2 Max		110		110	110		
101	Eco Fan3 Max		125		125	125		
102	Eco TempA Low		43		43	41		Operation Start in Eco for Temp Sensor 1
103	Eco TempA High		48		48	48		Operation Stop in Eco for Temp Sensor 1
104	TempA Error		55		55	53		Shutdown Temp of Temp Sensor 1
105	TempB Error		57		57	56		Shutdown Temp of Temp Sensor 2
106	TempC Error		77		77	76		Shutdown Temp of Temp Sensor 3
107	TempB-A Error		100		100	100		Shutdown Diff. Temp of Temp Sensor 2 and Sensor 1
108	TempC-A		100		100	100		Shutdown Diff. Temp of Temp Sensor 3 and Sensor 1
109								
110								
111								
112								
113	Manual Fan1 Voltage		100					Fan Operation Voltage in Manual
114	Manual Fan2 Voltage		100					
115	Manual Fan3 Voltage		100					
116	Temp Error Cooling Time		3					0: Continued 1: 30 sec. 2 60 sec. .....15:450 sec.
117	Cooling Time (L1)		3					0:30 sec. 2:60 sec. ..... 15:450 sec.
118	Fan2 Cooling front hald, Low speed spinning time setting		0					0:20 sec. 1: 22 sec. 3:26sec. .... 20:60 sec
119	Fan2 Cooling front hald, Low speed spinning Voltage setting		62					Operation Voltage for Fan2
120	Temp Sensor B Min Temp Condition at Temp Error(A-B)		45					Lowest Temp Condition of Temp Sensor 2 at Shutdown(1-2)
121	Normal Fan Mode		0					0:Auto Fan Control, 1: Manual Fan Control
122	Cooling Fan Mode		0					
123	Service Fan Mode		0					
124	Fan Over Cooling Prevent Mode On/Off		0					0: Normal 1: Over Cooling Prevent Mode
125	Eco Lamp Mode							Lamp User Time in Eco Mode
126	Normal Lamp Time							Lamp Use Time in Normal Mode
127	Projector Time							Accumulated Projector user Time,Read Only
128								
129								
130	Cooling Time (L2)		4					1:30 sec. 2:60 sec. 3:90 sec. 4: 120 sec. ... 15:450 sec.
	VPC3230							
150	Notch Filter Select	VPC3230	N/A	Note 1	N/A	3	3	Note 1: 480i = the same as NTSC
151	Diagonal Dot Reduction	VPC3230	N/A	Note 1	N/A	1	1	575i = the same as PAL
152	Horizontal Differential Gain	VPC3230	N/A	Note 1	N/A	3	3	
153	Vertical Differential Gain	VPC3230	N/A	Note 1	N/A	0	0	
154	Vertical Peaking Gain	VPC3230	N/A	Note 1	N/A	7	7	
155	AFC other1	VPC3230	N/A	Note 1	N/A	540	540	
156	AFC other2	VPC3230	N/A	Note 1	N/A	536	536	
157	Horizontal Peaking Filter	VPC3230	N/A	Note 1	N/A	1	1	
158	Peaking Gain	VPC3230	N/A	Note 1	N/A	2	2	
159	Peaking Filter Coring Enable	VPC3230	N/A	Note 1	N/A	0	0	
160								
161	Horizontal Lowpass Filter	VPC3230	N/A	Note 1	N/A	1	1	
162	Horizontal Lowpass Filter Chroma	VPC3230	N/A	Note 1	N/A	0	0	
163	DOR	VPC3230	N/A	Note 1	N/A	0	0	
164	COR	VPC3230	N/A	Note 1	N/A	0	0	
165	SGAIN	VPC3230	N/A	Note 1	N/A	28	28	SECAM=20
166	YC Delay	VPC3230	N/A	Note 1	N/A	62	62	
167	DVCO Auto Adjust	VPC3230				0		Execute auto adjustment when value changes 0 to 1.
168	DVCO Line-locked Center Frequency Adjust	VPC3230		Note 1		2656		
169	DVCO-Adjust	VPC3230		Note 1		ReadOnly		
	TA1370							
180	SEP. Level	TA1370	02					
181	HD1 OUT Set	TA1370	3					
182	HD Phase	TA1370	29/29/36/38/36					1080i/1035i/720p/575p/480p
183	VD1 INV	TA1370	0					

ItemNo.	Name	Device	Initial					Detail
			PC	YCbCr		Video		Note: 480i(+) = 480i & 575i, 480p(+) = 480p & HDTV
				480i(+)	480p(+)	NTSC	PAL	
184	V-FREQ	TA1370						Read Only
185	HD-IN	TA1370						Read Only
186	H-FREQ	TA1370						Read Only
	NJW141							
190	BASS	NJW141			0			
191	TREBLE	NJW141			0			
192	AGC	NJW141			0			
	ADC							
200	REDGAIN	AD9883	70	N/A	70	N/A	N/A	
201	GRNGAIN	AD9883	70	N/A	70	N/A	N/A	
202	BLUGAIN	AD9883	70	N/A	70	N/A	N/A	
203	GEDOFST	AD9883	60	N/A	55	N/A	N/A	✻ Pedestal Adjustment [G]
204	RRNOFST	AD9883	60	N/A	55	N/A	N/A	✻ Pedestal Adjustment [R]
205	BLUOFST	AD9883	60	N/A	55	N/A	N/A	✻ Pedestal Adjustment [B]
206	Clamp Duration	AD9883						
207	Clamp Placement	AD9883						
208								
209								
210								
211								
212								
214								
215								
220	DLY3.3V_ON				100			Time setting from Power-on to 3.3V on, 0ms to 310ms
221	DLY5V_ON				100			Time setting from Power-on to 5V on, 0ms to 310ms
	DIMMER CONTROL							
250	DIM_TBL_0	PIC			100			Lamp Consumption Power ratio at Dim Level15
251	DIM_TBL_1	PIC			100			Lamp Consumption Power ratio at Dim Level14
252	DIM_TBL_2	PIC			100			Lamp Consumption Power ratio at Dim Level13
253	DIM_TBL_3	PIC			100			Lamp Consumption Power ratio at Dim Level12
254	DIM_TBL_4	PIC			99			Lamp Consumption Power ratio at Dim Level11
255	DIM_TBL_5	PIC			98			Lamp Consumption Power ratio at Dim Level10
256	DIM_TBL_6	PIC			97			Lamp Consumption Power ratio at Dim Level9
257	DIM_TBL_7	PIC			96			Lamp Consumption Power ratio at Dim Level8
258	DIM_TBL_8	PIC			95			Lamp Consumption Power ratio at Dim Level7
259	DIM_TBL_9	PIC			94			Lamp Consumption Power ratio at Dim Level6
260	DIM_TBL_10	PIC			93			Lamp Consumption Power ratio at Dim Level5
261	DIM_TBL_11	PIC			92			Lamp Consumption Power ratio at Dim Level4
262	DIM_TBL_12	PIC			91			Lamp Consumption Power ratio at Dim Level3
263	DIM_TBL_13	PIC			90			Lamp Consumption Power ratio at Dim Level2
264	DIM_TBL_14	PIC			89			Lamp Consumption Power ratio at Dim Level1
265	DIM_TBL_15	PIC			88			Lamp Consumption Power ratio at Dim Level0
266	ECO_Power	PIC			88			Power Setting at Eco Mode
281	I2C_Flag	PIC			0			Access Flag for I2C
282	PIC_Revision	PIC			-			PIC Revision
283	PIC_Version	PIC			-			PIC Version
	OverScan							
297	Expand Ratio (Vertical) 60Hz	PIXEL			N/A		1	N/A Video and S-Video mode only.
298	Expand Ratio (Horizontal) 60Hz	PIXEL			N/A		17	N/A Progressive OFF
299	Position (Horizontal) 60Hz	PIXEL			N/A		513	N/A
300	Position (Vertical) 60Hz	PIXEL			N/A		384	N/A
301	Expand Ratio (Vertical) 50Hz	PIXEL			N/A			5 Video and S-Video mode only
302	Expand Ratio (Horizontal) 50Hz	PIXEL			N/A			24 Progressive OFF
303	Position (Horizontal) 50Hz	PIXEL			N/A			522
304	Position (Vertical) 50Hz	PIXEL			N/A			383
305	Expand Ratio (Vertical) 480i	PIXEL	N/A	1		N/A		For Component 480i mode
306	Expand Ratio (Horizontal) 480i	PIXEL	N/A	17		N/A		Progressive OFF
307	Position (Horizontal) 480i	PIXEL	N/A	512		N/A		
308	Position (Vertical) 480i	PIXEL	N/A	384		N/A		
309	Expand Ratio (Vertical) 575i	PIXEL	N/A	5		N/A		For Component 575i mode
310	Expand Ratio (Horizontal) 575i	PIXEL	N/A	24		N/A		Progressive OFF
311	Position (Horizontal) 575i	PIXEL	N/A	519		N/A		
312	Position (Vertical) 575i	PIXEL	N/A	383		N/A		
313	Expand Ratio (Vertical) 480p	PIXEL		N/A		10	N/A	For Component 480p mode
314	Expand Ratio (Horizontal) 480p	PIXEL		N/A		32	N/A	
315	Position (Horizontal) 480p	PIXEL		N/A		506	N/A	
316	Position (Vertical) 480p	PIXEL		N/A		382	N/A	
317	Expand Ratio (Vertical) 575p	PIXEL		N/A		21	N/A	For Component 575p mode
318	Expand Ratio (Horizontal) 575p	PIXEL		N/A		41	N/A	
319	Position (Horizontal) 575p	PIXEL		N/A		505	N/A	
320	Position (Vertical) 575p	PIXEL		N/A		388	N/A	
321	Expand Ratio (Vertical) 720p	PIXEL	9	N/A		10	N/A	For Component and RGB 720p mode
322	Expand Ratio (Horizontal) 720p	PIXEL	15	N/A		14	N/A	
323	Position (Horizontal) 720p	PIXEL	513	N/A		513	N/A	
324	Position (Vertical) 720p	PIXEL	383	N/A		385	N/A	
325	Expand Ratio (Vertical) 1035i	PIXEL	5	N/A		5	N/A	For Component mode and RGB HDTV 1035i

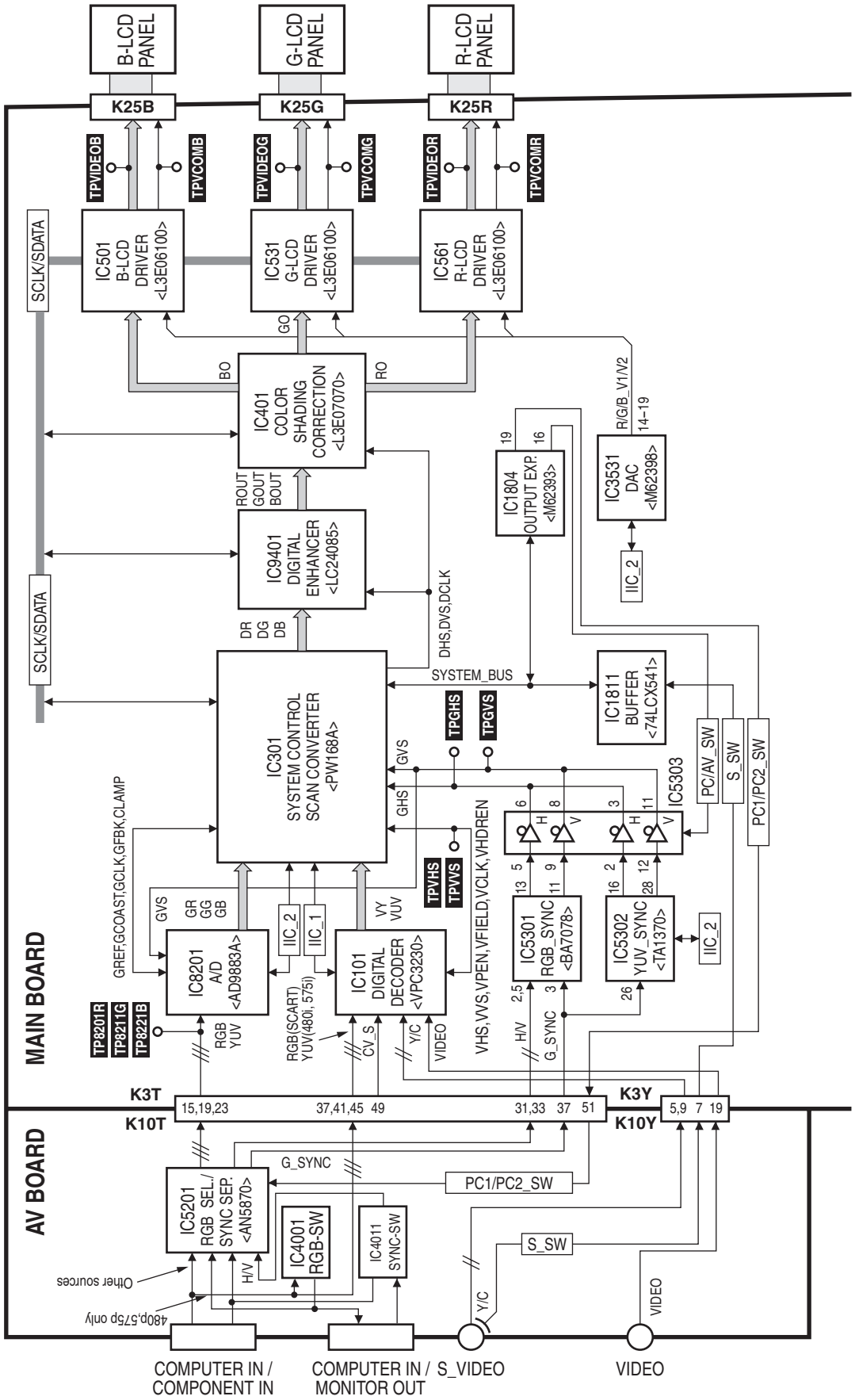
ItemNo.	Name	Device	Initial					Detail
			PC	YCbCr		Video		Note: 480i(+) = 480i & 575i, 480p(+) = 480p & HDTV
				480i(+)	480p(+)	NTSC	PAL	
326	Expand Ratio (Horizontal) 1035i	PIXEL	23	N/A	23	N/A		
327	Position (Horizontal) 1035i	PIXEL	510	N/A	528	N/A		
328	Position (Vertical) 1035i	PIXEL	382	N/A	382	N/A		
329	Expand Ratio (Vertical) 1080i	PIXEL	7	N/A	7	N/A		For Component mode and RGB HDTV 1080i
330	Expand Ratio (Horizontal) 1080i	PIXEL	22	N/A	23	N/A		
331	Position (Horizontal) 1080i	PIXEL	508	N/A	528	N/A		
332	Position (Vertical) 1080i	PIXEL	382	N/A	383	N/A		
333	Expand Ratio (Vertical) 60Hz	PIXEL	7	N/A				For RGB NTSC 480i
334	Expand Ratio (Horizontal) 60Hz	PIXEL	36	N/A				
335	Position (Horizontal) 60Hz	PIXEL	517	N/A				
336	Position (Vertical) 60Hz	PIXEL	383	N/A				
337	Expand Ratio (Vertical) 50Hz	PIXEL	20	N/A				For RGB PAL 575i
338	Expand Ratio (Horizontal) 50Hz	PIXEL	40	N/A				
339	Position (Horizontal) 50Hz	PIXEL	515	N/A				
340	Position (Vertical) 50Hz	PIXEL	384	N/A				
341	Expand Ratio (Vertical) 50Hz	PIXEL	7	N/A	7	N/A		For 1080i_50Hz and RGB HDTV 1080i_50Hz
342	Expand Ratio (Horizontal) 50Hz	PIXEL	14	N/A	14	N/A		
343	Position (Horizontal) 50Hz	PIXEL	505	N/A	520	N/A		
344	Position (Vertical) 50Hz	PIXEL	384	N/A	384	N/A		
345	Expand Ratio (Vertical) SCART	PIXEL	5	N/A				For SCART RGB 575i
346	Expand Ratio (Horizontal) SCART	PIXEL	23	N/A				Progressive OFF
347	Position (Horizontal) SCART	PIXEL	518	N/A				
348	Position (Vertical) SCART	PIXEL	383	N/A				
349	Expand Ratio (Vertical) 60Hz	PIXEL	N/A			2	N/A	For Video and S-Video only
350	Expand Ratio (Horizontal) 60Hz	PIXEL	N/A			17	N/A	Progressive ON
351	Position (Horizontal) 60Hz	PIXEL	N/A			513	N/A	
352	Position (Vertical) 50Hz	PIXEL	N/A			383	N/A	
353	Expand Ratio (Vertical) 50Hz	PIXEL	N/A				5	
354	Expand Ratio (Horizontal) 50Hz	PIXEL	N/A				24	
355	Position (Horizontal) 50Hz	PIXEL	N/A				522	
356	Position (Vertical) 50Hz	PIXEL	N/A				383	
357	Expand ratio (Vertical) 480i	PIXEL	N/A	2		N/A		For Component 480i mode
358	Expand Ratio (Horizontal) 480i	PIXEL	N/A	17		N/A		Progressive ON
359	Position (Horizontal) 480i	PIXEL	N/A	512		N/A		
360	Position (Vertical) 480i	PIXEL	N/A	383		N/A		
361	Expand ratio (Vertical) 575i	PIXEL	N/A	5		N/A		For Component 575i mode
362	Expand Ratio (Horizontal) 575i	PIXEL	N/A	24		N/A		Progressive ON
363	Position (Horizontal) 575i	PIXEL	N/A	519		N/A		
364	Position (Vertical) 575i	PIXEL	N/A	383		N/A		
365	Expand ratio (Vertical) SCART	PIXEL	5			N/A		For SCART RGB 575i
366	Expand Ratio (Horizontal) SCART	PIXEL	23			N/A		Progressive ON
367	Position (Horizontal) SCART	PIXEL	518			N/A		
368	Position (Vertical) SCART	PIXEL	383			N/A		
369	Expand ratio (Vertical) 60Hz	PIXEL	10			N/A		For RGB 480p
370	Expand Ratio (Horizontal) 60Hz	PIXEL	33			N/A		
371	Position (Horizontal) 60Hz	PIXEL	508			N/A		
372	Position (Vertical) 60Hz	PIXEL	375			N/A		
373	Expand ratio (Vertical) 50Hz	PIXEL	21			N/A		For RGB 575p
374	Expand Ratio (Horizontal) 50Hz	PIXEL	30			N/A		
375	Position (Horizontal) 50Hz	PIXEL	512			N/A		
376	Position (Vertical) 50Hz	PIXEL	381			N/A		
377	Expand Ratio (Vertical) SCART	PIXEL	1			N/A		For SCART RGB 480i
378	Expand Ration (Horizontal) SCART	PIXEL	17			N/A		Progressive ON
379	Position (Horizontal) SCART	PIXEL	513			N/A		
380	Position (Vertical) SCART	PIXEL	384			N/A		
381	Expand Ratio (Vertical) SCART	PIXEL	2			N/A		For SCART RGB 480i
382	Expand Ratio (Horizontal) SCART	PIXEL	17			N/A		Progressive ON
383	Position (Horizontal) SCART	PIXEL	513			N/A		
384	Position (Vertical) SCART	PIXEL	383			N/A		
400	Gamma Shift Combination ON/OFF				1			0: each source separate / 1: PC source only separate
401	PC Frame Lock Forced OFF				1			0: ON for all source / 1: OFF at PC
402	Auto Grayscale black control start point				31			
403	Auto Grayscale black control limit point				16			
404								
405	Auto Grayscale white control start point				33			
406	Auto Grayscale white control limit point				56			
407								
408	G-Gamma Shift Differential at Hi-Contrast							
409	R-Gamma Shift Differential at Hi-Contrast							
410	B-Gamma Shift Differential at Hi-Contrast							
411	G-Gamma Shift Differential at Cinema							
412	R-Gamma Shift Differential at Cinema							
413	B-Gamma Shift Differential at Cinema							
414								

■ Chassis Block Diagrams

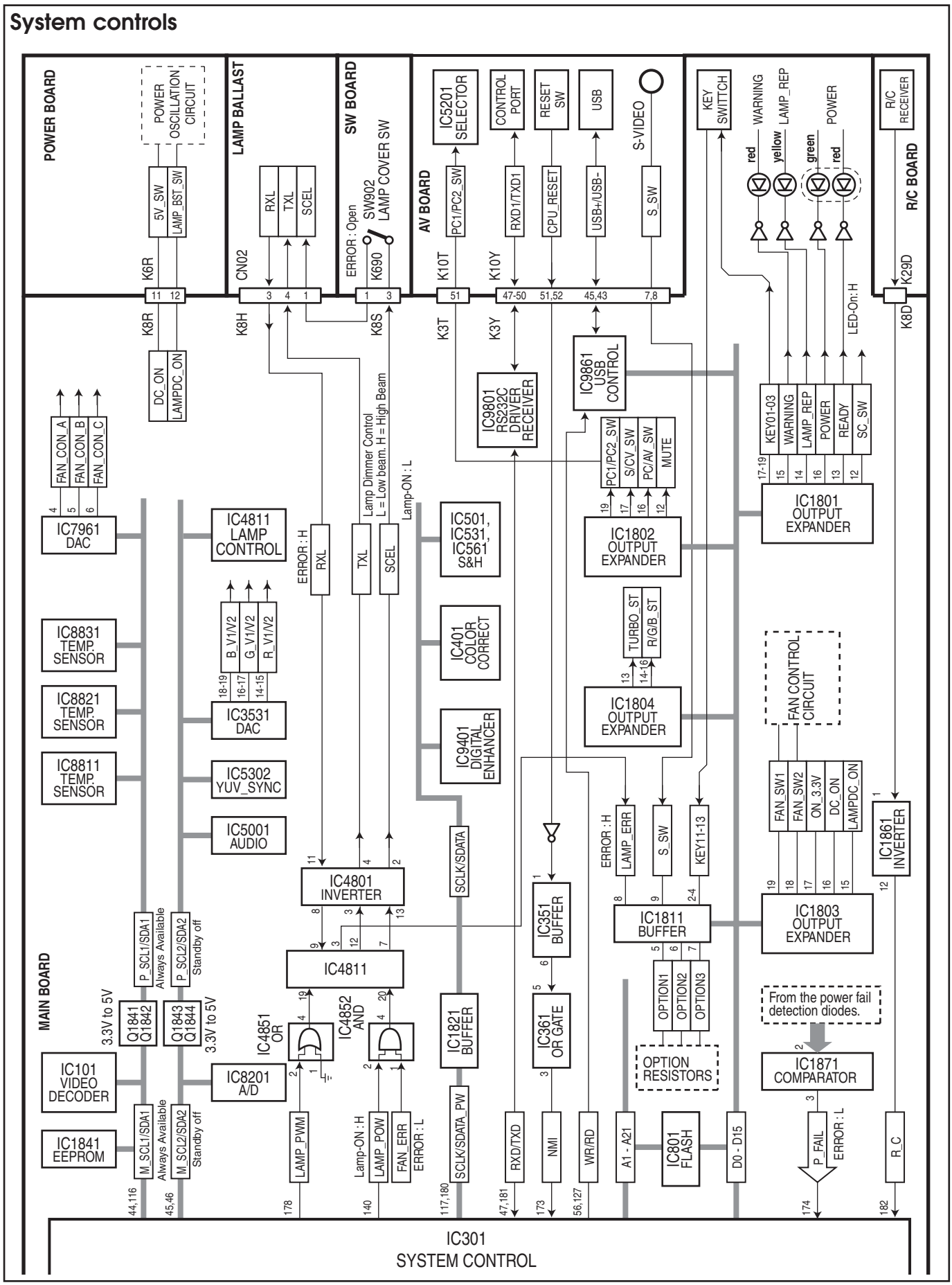
Chassis over view



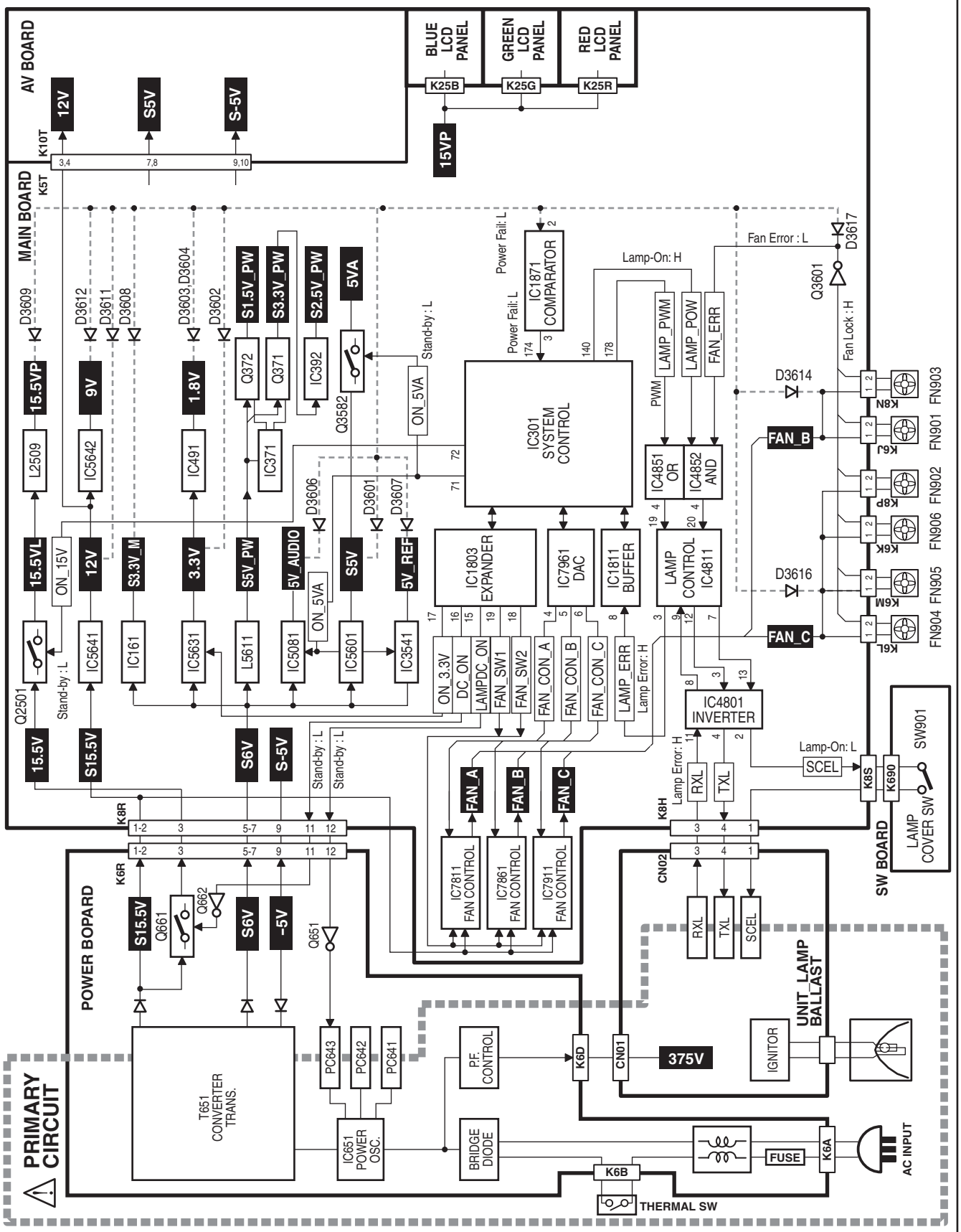
Inputs & video signal processing stage



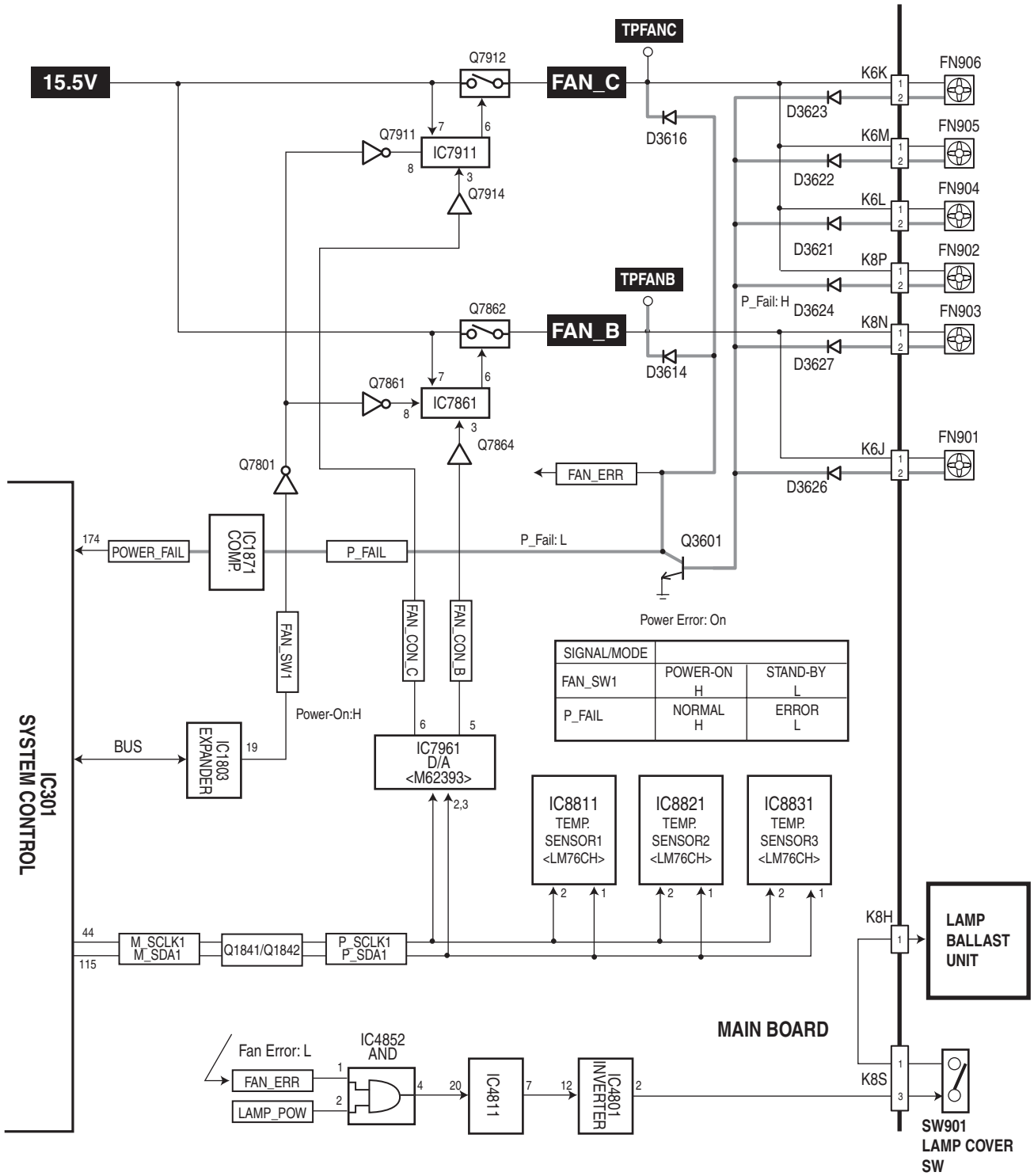
System controls



Power supply & protection circuit



Fan control circuit



■ Troubleshooting

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER **red/green**	WARNING **red**	LAMP REPLACE **yellow**	
●	●	●	The projector is OFF. (The AC power cord is unplugged.)
◌	●	✻	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed.
▨	●	✻	The projector is ready to be turned on with the POWER ON-OFF button.
○	●	✻	The projector is operating normally.
◌	●	✻	The projector is in the Power management mode.
◌	◌	✻	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator lights red and the projector can be turned on. (The WARNING . indicator keeps flashing.) Check and clean the Air filter.
▨	◌	✻	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops flashing. Check and clean the air filters.
●	▨	✻	The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, disconnect the AC power cord and contact the dealer or the service center for service and checkup. Do not leave the projector on. It may cause electric shock or a fire hazard.

○ • • • lights green. ◌ • • • flashes green. ▨ • • • lights red. ◌ • • • flashes red. ● • • • off

✻ When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the Lamp replace counter after replacement of the lamp.

No Power

This projector provides a function which can be specified a defective area simply by indicating the LEDs on the control panel. Connect the AC cord and press the Power button once and then check the LED indication.

- When all the LED indicators are not lighting, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;

AC cord, F601 (Fuse), Power board, SW902 (Thermal sw.) short in normal

SW902 opens when the surrounding temperature of the switch exceeds 90°C.

- When the WARNING(red) and POWER(red) indicators are flashing, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops flashing, and then try to turn on the projector.

The internal temperature is monitored by sensor ICs, IC8811, IC8821 and IC8831 on the Main Board.

- When the WARNING (red) indicator lights, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.

An abnormality occurs on the secondary power supply lines.

Power failure detection diodes detect abnormal voltage on the power supply circuits.
POWER_FAIL (Error:L) signals are sent to pin 174 of IC301(System Controller) via IC1871(Comparator).
Check the shortage of secondary circuits, ICs, condensers, etc.
Check power supply lines, 15VP, 9V, 12V, 3.3V and 1.8V, 5V_AUDIO, S5V on the Main Board.

An abnormality occurs on the fan control circuits.

Power failure detection diodes detect the fan operation stop. Check FN901, FN902, FN903, FN904, FN905, FN906 and peripheral circuit.
Check fan's power supply lines and detection diodes D3616 and D3614.
Check fan lock signal(Lock:H) and Q3601, D3617 and peripheral circuit.

An abnormality occurs on power starter signals (ON_5VA, ON_3.3V, ON_15V, LAMPDC_ON, DC_ON).

LAMDC_ON signal (Power-on:H) is output from pin 15 of IC1803 and applied to PC643 on the Power Board. It drives the power oscillation circuit and power supply in the Power Board.
DC_ON signal (Power-on:H) is output from pin 16 of IC1803 and switches Q661<15.5V> on/off.
ON_15V signal(Power-on:H) is output from pin 72 of IC301 and sent to Q2501, then 15VL line is supplied.
ON_5VA signal(Power-on:H) is output from pin 71 of IC301 and sent to IC5081 and Q3582 to switch power supply 5V_AUDIO and 5VA.

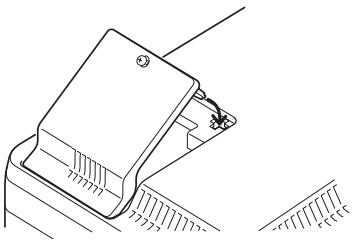
- When the projector switches into the standby mode.

An abnormality occurs on Lamp drive signal (LAMP_POW, LAMP_ERR).

- LAMP_POW signal(Power-on:H) is output from pin 140 of IC301 and sent to IC4811 via IC4852.
  SCEL signal(Lamp-on:L) is output from pin 2 of IC4811 via IC4801 and sent to Lamp Ballast Unit through SW901(Lamp Cover SW).
- TXL signal is output from pin 12 of IC4811 and sent to Lamp ballast Unit via IC4801.
  (TXL signal is applied for lamp power control. Lo: Low power, Hi: High power)
- RXL signal(Lamp status signal) is output from Lamp Ballast Unit and sent to pin 9 of IC4811 via IC4801, then LAMP_ERR signal is output from pin 3 of IC4811 and sent to IC301 via IC1811.
  If an abnormality occurs on the lamp ballast unit, RXL signal and LAMP_ERR signal become "H" and then IC301 sets the projector into the standby mode..

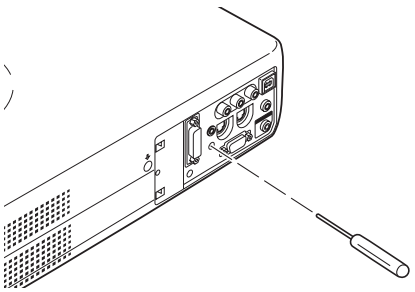
Lamp Cover switch

Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW901).

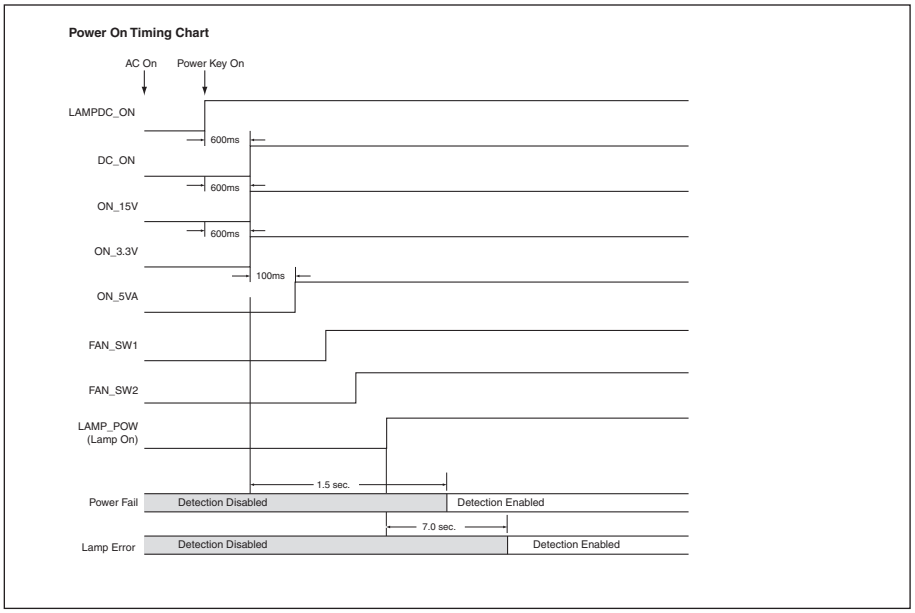


Reset switch

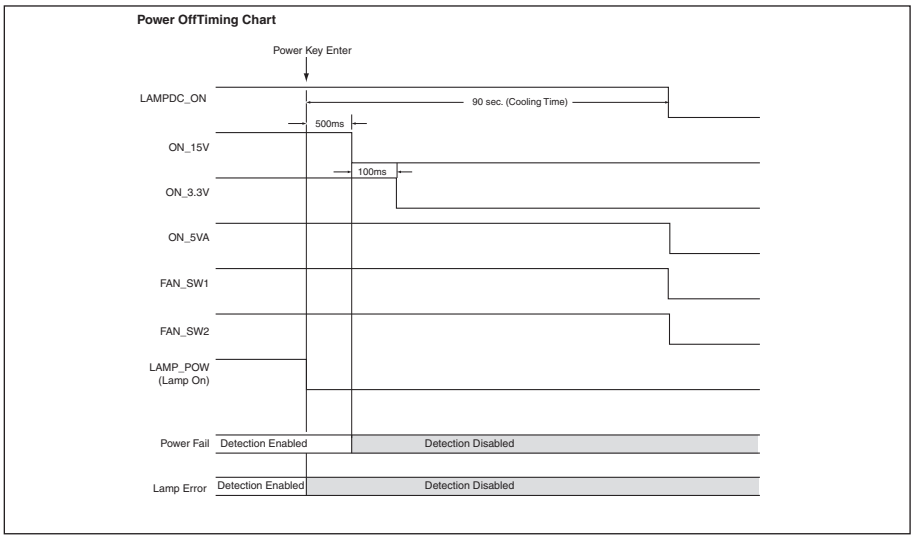
The microprocessor inside the projector may occasionally malfunction and does not accept any controls. In this case, press the reset switch on the rear panel with a sharp tool to restart the projector.



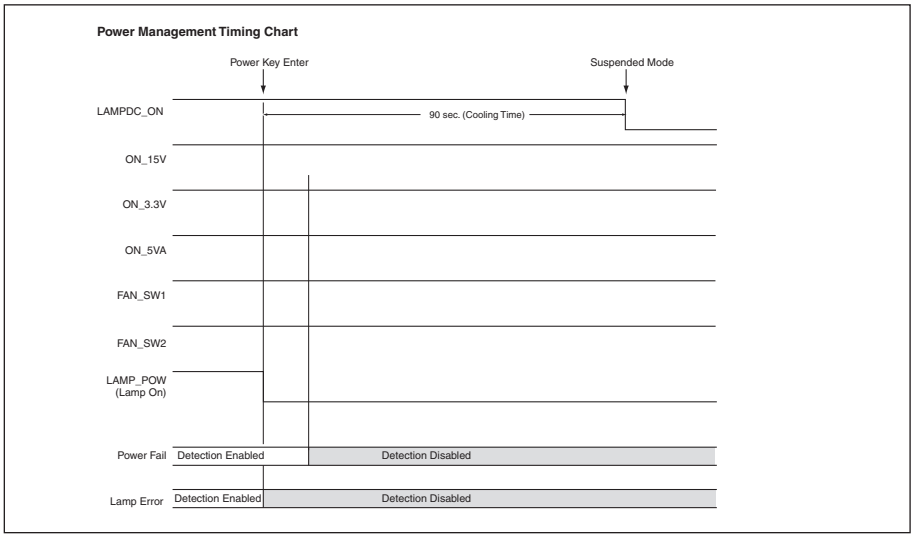
Power Control Timing Chart



Power On Timing Chart



Power Off Timing Chart



Power Management Timing Chart

No Picture

Check following steps.

No picture with all of input sources

Yes → Check signal processing stage and LCD driving stage;
- Check RGB S&H signals at test points TPVIDEOR, TPVIDEOG, TPVIEOB.
- Check power supply circuit 15.5V and peripheral circuit.
- Check ICs IC501, IC531, IC561, IC3501, IC3531, IC401, IC301 and peripheral circuits.

No

No picture with PC1 [RGB] input source

Yes → Check PC source input stage;
- Check IC5201<PC1/PC2 RGB-SW> and peripheral circuit on the AV board.
- PC1/PC2_SW signal (PC1: L) is output from pin 19 of IC1804<Output Expander> and applied to pin 26 of IC5201 through IC5371<Buffer>.

No

No picture with PC2 [RGB] input source

Yes → Check PC source input stage;
- Check IC5201<PC1/PC2 RGB-SW> and peripheral circuit on the AV board.
- PC1/PC2_SW signal (PC2: H) is output from pin 19 of IC1804<Output Expander> and applied to pin 26 of IC5201 through IC5371<Buffer>.
- Check IC4011<Sync-sw> IC4071 and peripheral circuit.

No

No picture with all of computer input sources

Yes → Check PC/AV source selecting stage and processing stage;
- Check IC5201<PC1/PC2 RGB-SW> and IC201<A/D Conversion> and peripheral circuit.
- PC1/PC2_SW signal (PC2: H) is output from pin 19 of IC1804<Output Expander> and applied to pin 26 of IC5201 through IC5371<Buffer>.

No

Go to next page

From previous page

No picture with S-VIDEO input source

Yes →

Check AV source selecting stage;

Check S-video signal (Y/C) on the AV board.

S-C signal is applied to pin 71 of IC101<Video Decoder>, and S-Y signal is applied on pin 73 of IC101.

S_SW signal (S-VIDEO:L) is input to pin 9 of IC1811<I/O>.

No

No picture with Component input source

Yes →

Check AV source selecting stage;

Check component signal (Y/Cr,Pr/Cb,Pb) on the AV board.

The component signals are applied to pins 1, 2, 3 of IC101<Video Decoder>.

The component mode is selected by the M_SCLK1 and M_SDA1 signal applied to pins 13 and 14 of IC101.

No

No picture with video input source

Yes →

Check AV source selecting stage;

Check composite video signal (Video) on the AV board and TP103 on the main board.

Check IC101<Video Decoder> and peripheral circuit.

H-Sync signal is output from pin 55 iof IC101. V-sync signal is output from pin 57 of IC101.

No Sound

Check following steps.

Is the audio signal observed at pins 10 and 21 of IC5001?

No → Check PC/AV-AUDIO switching circuit.
Check IC5001, audio-sw IC, and peripheral circuit. Check signals "P_SCLK2" and "P_SDA2" at pins 13,14 of IC5001.

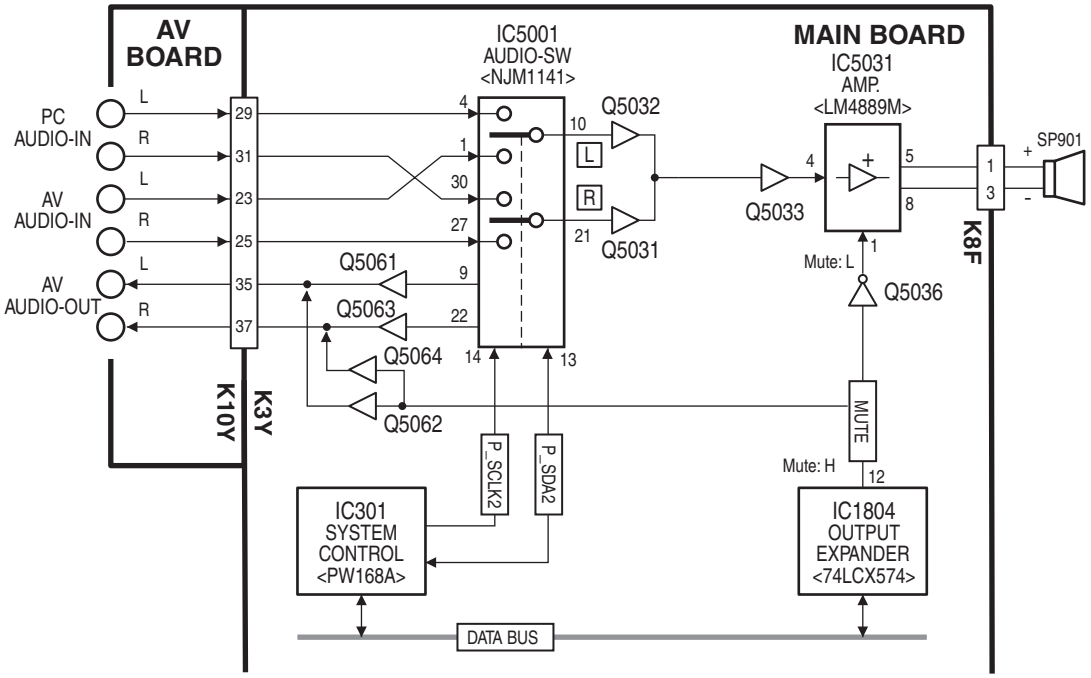
Yes

Is the audio signal observed at pins 5 and 8 of IC5031?

No → Check Audio amplifier circuit.
Check IC5031, audio-amp IC, and peripheral circuit.
MUTE signal (Mute:L) is applied on pin 1 of IC5031, sent from pin 12 of IC1804.
Sound volume is controlled by IC301<SYSTEM CONTROL> via the IIC bus.
Check 5V_AUDIO power supply line.

Yes → Check audio output circuit.
Check speaker, connection of the terminal “K8F”.

Audio signal processing circuit



■ Control Port Functions

● System Control & I/O Port Table (IC301)

Pin No.	Name	Function Name	Function	Polarity	I/O
178	Port A7	LAMP_PWM	PWM Output to Sub-CPU	PWM	O
115	Port A6	MUPO_ON			I
44	Port A5	M_SCL1			I/O
116	Port A4	M_SDA1			O
45	Port A3	M_SCL2			I/O
46	Port A2	M_SDA2			O
117	Port A1	SCLK	3 Line Serial Bus Clock		O
180	Port A0	SDATA	3 Line Serial Bus Data		O
173	Port B7	NMI	Reset SW Input		I
111	Port B6	IRM_STB	3 Line Serial Bus Strobe		O
40	Port B5	3L_EN	3 Line Serial Bus Enable		O
174	Port B4	POWER_FAIL	Power Fail Detection	Error = L	I
41	Port B3	A23	Address Bus 23		
175	Port B2	A22	Address Bus 22		
112	Port B1	A21	Address Bus 21		
229	Port B0	A20	Address Bus 20		
71	Port E7	ON_5VA	Standby 5V OFF	Standby = L	O
139	Port E6	DCLK_SW			O
200	Port E5	VHDPEN	IC101 Video Decoder Enable		O
140	Port E4	LAMP_POW	Lamp ON to Sub-CPU	Lamp-ON = H	O
201	Port E3	USB_VBUS	USB Connector Detection	Not used	I
141	Port E2	USB_RST	USB Device Reset Output		O
72	Port E1	ON_15V	Standby 15V OFF	Standby = L	O
142	Port E0	USB_EN	USB Device Enable Output		O
119	Port F7	IRRCVR1	IR Receiver Input 1	Not used	I
182	Port F6	IRRCVR0	IR Receiver Input 0		I
47	Port F5	RXD			I
181	Port F4	TXD			O
189	Port F3	CS0	I/O Expander Chip Select (Output)		O
55	Port F2	CS1	I/O Expander Chip Select (Input)		O
207	Port F1	DCLKEXT	D-port Clock External Input	Not used	I
257	Port F0	MCLKEXT	Memory System Clock Input	Not used	I
194	A19	A19	Address Bus 19		
63	A19	A18	Address Bus 18		
132	A17	A17	Address Bus 17		
62	A16	A16	Address Bus 16		
61	A15	A15	Address Bus 15		
131	A14	A14	Address Bus 14		
193	A13	A13	Address Bus 13		
247	A12	A12	Address Bus 12		
60	A11	A11	Address Bus 11		
246	A10	A10	Address Bus 10		
59	A9	A9	Address Bus 9		
130	A8	A8	Address Bus 8		
129	A7	A7	Address Bus 7		
192	A6	A6	Address Bus 6		
128	A5	A5	Address Bus 5		
58	A4	A4	Address Bus 4		
191	A3	A3	Address Bus 3		
190	A2	A2	Address Bus 2		
245	A1	A1	Address Bus 1		
244	A0	A0	Address Bus 0		
242	D15	D15	Data Bus 15		I/O
241	D14	D14	Data Bus 14		I/O
187	D13	D13	Data Bus 13		I/O
53	D12	D12	Data Bus 12		I/O
124	D11	D11	Data Bus 11		I/O
186	D10	D10	Data Bus 10		I/O
240	D9	D9	Data Bus 9		I/O
123	D8	D8	Data Bus 8		I/O
185	D7	D7	Data Bus 7		I/O
122	D6	D6	Data Bus 6		I/O
51	D5	D5	Data Bus 5		I/O
184	D4	D4	Data Bus 4		I/O
121	D3	D3	Data Bus 3		I/O
50	D2	D2	Data Bus 2		I/O
49	D1	D1	Data Bus 1		I/O
183	D0	D0	Data Bus 0		I/O
127	RD	RD	Read Enable	Not used	I/O
56	WR	WR	Write Enable	Not used	I/O
118	BHEN	BHEN	High Byte Enable	Not used	I/O

Pin No.	Name	Function Name	Function	Polarity	I/O
188	ROMOE	ROMOE	ROM Output Enable for Flash ROM		O
126	ROMWE	ROMWE	ROM Write Enable for Flash ROM		O
125	RAMOE	RAMOE	RAM Output Enable	Not used	O
54	RAMWE	RAMWE	RAM Write Enable	Not used	O
177	Port C1	CS3	Chip Select 3	Not used	O
230	Port C0	CS2	Chip Select 2	Not used	O
238	EXTINT	EXTINT	External Interrupt Input		I/O
120	NMI	-	Non-maskable Interrupt (Not used)	(set L)	I
48	RESET	RESET	Master Reset Input		I
233	ADR24B	ADR24B	24bit Address Select Input	(set H)	I
133	MODE3	MODE3	Internal Oscillator Enable Input	(set H)	I
290	MODE2	MODE2	Reserved	(set L)	I
248	MODE1	MODE1	Internal MCLK PLL Enable Input	(set H)	I
232	MODE0	MODE0	Internal DCLK PLL Enable Input	(set H)	I

Note : Other functions except for system control are not listed.

● IIC Bus D/A Converter (IC3531, M62398FP) Port Functions

Pin No.	Name	Function		I/O
1	R	Reset input		I
2	SCL	P_SCK2	IIC BUS SCL	I
3	SDA	P_SDA2	IIC BUS SDA	I/O
4	A07	REF_R		O
5	A08	REF_G		O
6	A09	REF_B		O
7	A10	-	Not used	O
8	A11	-	Not used	O
9	A12	-	Not used	O
10	VrefL	DAC Lower Reference Voltage input		-
11	VrefU1	DAC Upper Reference Voltage input (CH5~CH8)		-
12	Vss	GND		-
13	VrefU2	DAC Upper Reference Voltage input (CH1~CH 4)		-
14	A01	R_V1	Video signal reference voltage (-) R	O
15	A02	R_V2	Video signal reference voltage (+)R	O
16	A03	G_V1	Video signal reference voltage (-)G	O
17	A04	G_V2	Video signal reference voltage (+)G	O
18	A05	B_V1	Video signal reference voltage (-)B	O
19	A06	B_V2	Video signal reference voltage (+)B	O
20	Vcc	Power Supply for Output Buffer (+12V)		-
21	Vdd	Power Supply +5V		-
22	CS2	Slave address setting port 2 (Vdd)		I
23	CS1	Slave address setting port 1 (Vdd)		I
24	CS0	Slave address setting port 0 (GND)		I

● IIC Bus DA Converter (IC7961, M62393) Port Functions

Pin No.	Name	Function	Action
1	R	Reset	Fixed "H"
2	SCL	IIC SCL	Active "L"
3	SDA	IIC SDA	Active "L"
4	AO5	FAN_CON_A	
5	AO6	FAN_CON_B	
6	AO7	FAN_CON_C	
7	AO8	Not used	
8	VrefL		D/A converter lower ref. voltage Connected to GND
9	VrefU1		D/A converter upper ref. voltage (CH5~CH8) Connected to Vcc
10	GND	GND	GND
11	VrefU2		D/A converter upper ref. voltage (CH1~CH4) Connected to Vcc
12	AO1	Not used	
13	AO2	Not used	
14	AO3	Not used	
15	AO4	Not used	
16	Vcc	5 V	Vcc(5V)
17	Vdd	5 V	Vdd(5V)
18	CS2	Chip Select 2	Fixed "L"
19	CS1	Chip Select 1	Fixed "L"
20	CS0	Chip Select 0	Fixed "L"

● Output Expander (IC1801, TC74LCX574FT) Port Functions

Pin No.	Name	Function			I/O
1	OE	IO_ENB			I
2	D0	D0			I
3	D1	D1			I
4	D2	D2			I
5	D3	D3			I
6	D4	D4			I
7	D5	D5			I
8	D6	D6			I
9	D7	D7			I
10	GND	GND			-
11	CK	ADD1_CS	Output Port Chip Select	Enable = L	I
12	Q7	SC_SW	SCART input switch	SCART = H	O
13	Q6	READY_LED	Ready LED	Ready = H	O
14	Q5	LAMP_LED	Lamp Replace LED	Replace = H	O
15	Q4	TEMP_LED	Warning Temperature LED	Warning = H	O
16	Q3	PWR_LED	AC Power LED	ON = H	O
17	Q2	KO3	KEY Scan Output		O
18	Q1	KO2	KEY Scan Output		O
19	Q0	KO1	KEY Scan Output		O
20	Vdd	Power Supply +3.3V			-

● Output Expander (IC1802, TC74LCX574FT) Port Functions

Pin No.	Name	Function			I/O
1	OE	IO_ENB			I
2	D8	D8			I
3	D9	D9			I
4	D10	D10			I
5	D11	D11			I
6	D12	D12			I
7	D13	D13			I
8	D14	D14			I
9	D15	D15			I
10	GND	GND			-
11	CK	ADD1_CS	Output Port Chip Select	Enable = L	I
12	Q7	--			O
13	Q6	TURBO_ST	Strobe for Turbo (IC9401)		O
14	Q5	SH_B_ST	Strobe for B sample & hold (IC501)		O
15	Q4	SH_G_ST	Strobe for G sample & hold (IC531)		O
16	Q3	SH_R_ST	Strobe for R sample & hold (IC561)		O
17	Q2	IRM_RS	Reset for IC401		O
18	Q1	MCLK_SW	Switch for MCLK		O
19	Q0	--			O
20	Vdd	Power Supply +3.3V			-

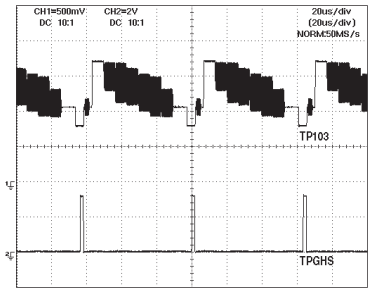
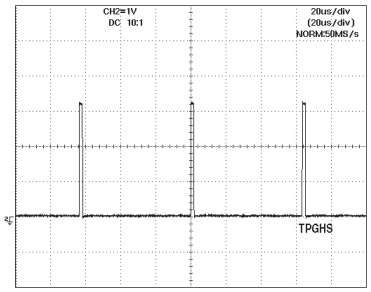
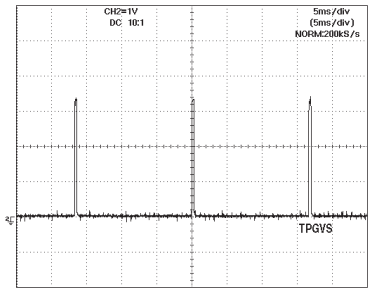
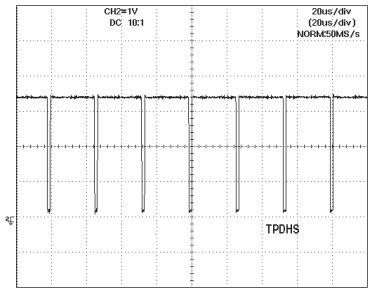
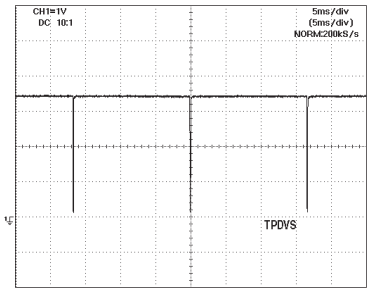
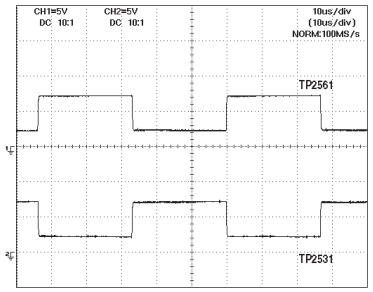
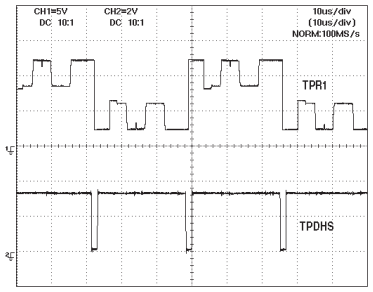
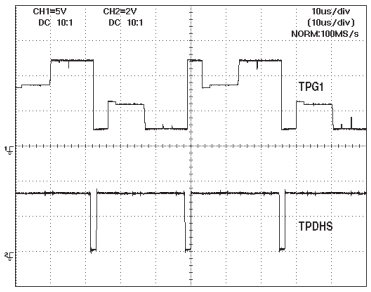
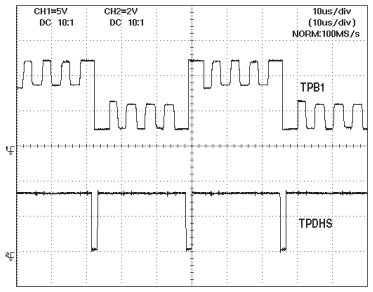
● Output Expander (IC1803, TC74LCX574FT) Port Functions

Pin No.	Name	Function			I/O
1	OE	IO_ENB			I
2	D0	D0			I
3	D1	D1			I
4	D2	D2			I
5	D3	D3			I
6	D4	D4			I
7	D5	D5			I
8	D6	D6			I
9	D7	D7			I
10	GND	GND			-
11	CK	ADD1_CS	Output Port Chip Select	Enable = L	I
12	Q7	--			O
13	Q6	--			O
14	Q5	--			O
15	Q4	LAMPDC_ON	Drives Lamp Ballast Unit	Power-on=H	O
16	Q3	DC_ON	Drives 15.5V Power Supply	Power-on=H	O
17	Q2	ON_3.3V	Drives 3.3V Power Supply	Power-on=H	O
18	Q1	FAN_SW2	Not used		O
19	Q0	FAN_SW1	Drives FAN_B, FAN_C Power Supply	Power-on=H	O
20	Vdd	Power Supply +3.3V	-		

● Output Expander (IC1804, TC74LCX574FT) Port Functions

Pin No.	Name	Function			I/O
1	OE	IO_ENB			I
2	D8	D8			I
3	D9	D9			I
4	D10	D10			I
5	D11	D11			I
6	D12	D12			I
7	D13	D13			I
8	D14	D14			I
9	D15	D15			I
10	GND	GND			-
11	CK	ADD1_CS	Output Port Chip Select	Enable = L	I
12	Q7	MUTE	Mute Output	Mute-on=H	O
13	Q6	CG-FILT	Filter-on at RGB signal		O
14	Q5	FILT_480P/575P	Filter-on at 480p/575p signal		O
15	Q4	CABLE_SW			O
16	Q3	PC/AV_SW	PC/AV Mode switch	PC=H	O
17	Q2	S/CV_SW	S-Video/Video switch	S-Video=H	O
18	Q1	MONIT_OUT	PC2 Monitor out Mode	PC2 MONITOR=H	O
19	Q0	PC1/PC2_SW	PC1/PC2 Mode switch	PC1=H	O
20	Vdd	Power Supply +3.3V			-

■ Waveform

VIDEO-IN <TP103, IC101-75>	Analog H-SYNC <TPGHS>	Analog V-SYNC <TPGVS>
		
Digital H-SYNC <TPDHS>	**Digital V-SYNC <TPDVS>**	**NRS <TPVCOMB/G/R>**
		
R-S&H OUT <TPVIDEOR>	**G-S&H OUT <TPVIDEOG>**	**B-S&H OUT <TPVIDEOB>**
		

■ Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:
Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be vary careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

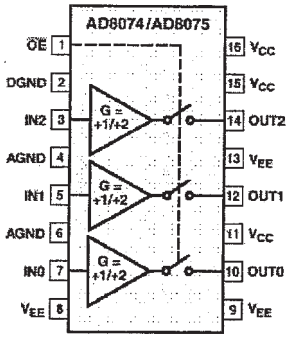
Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.
Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassemblies”.
2. Remove the optical base top following to “Optical Unit Disassemblies”. If the LCD panel needs cleaning, remove the LCD panel unit following to “LCD panel replacement”.
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

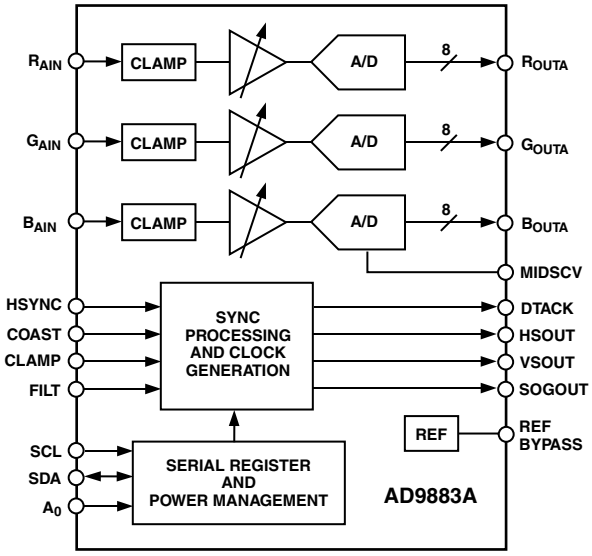
Caution:
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

■ IC Block Diagrams

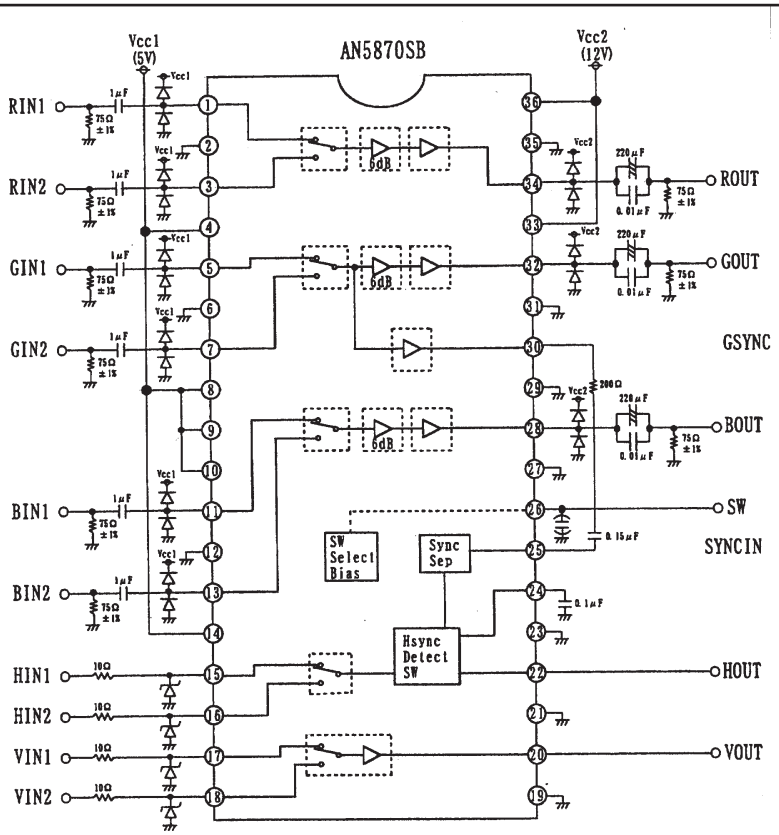
● AD8075 <Selector, IC4001>



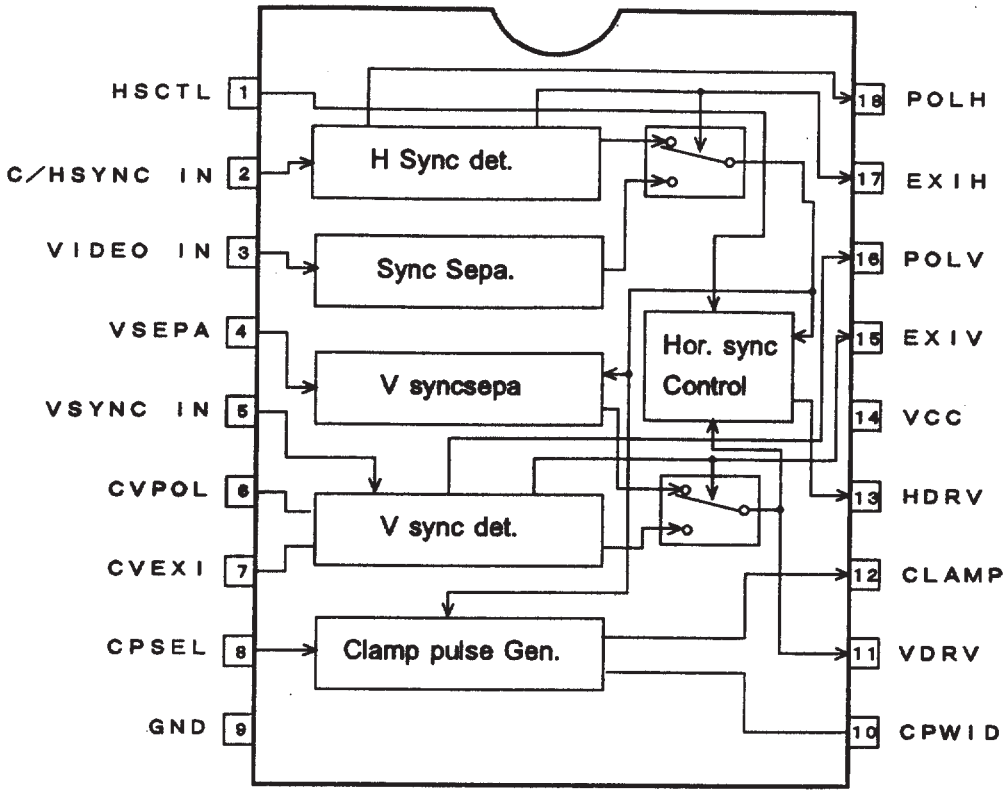
● AD9883AKST <Analog Flat Panel Interface, IC8201>



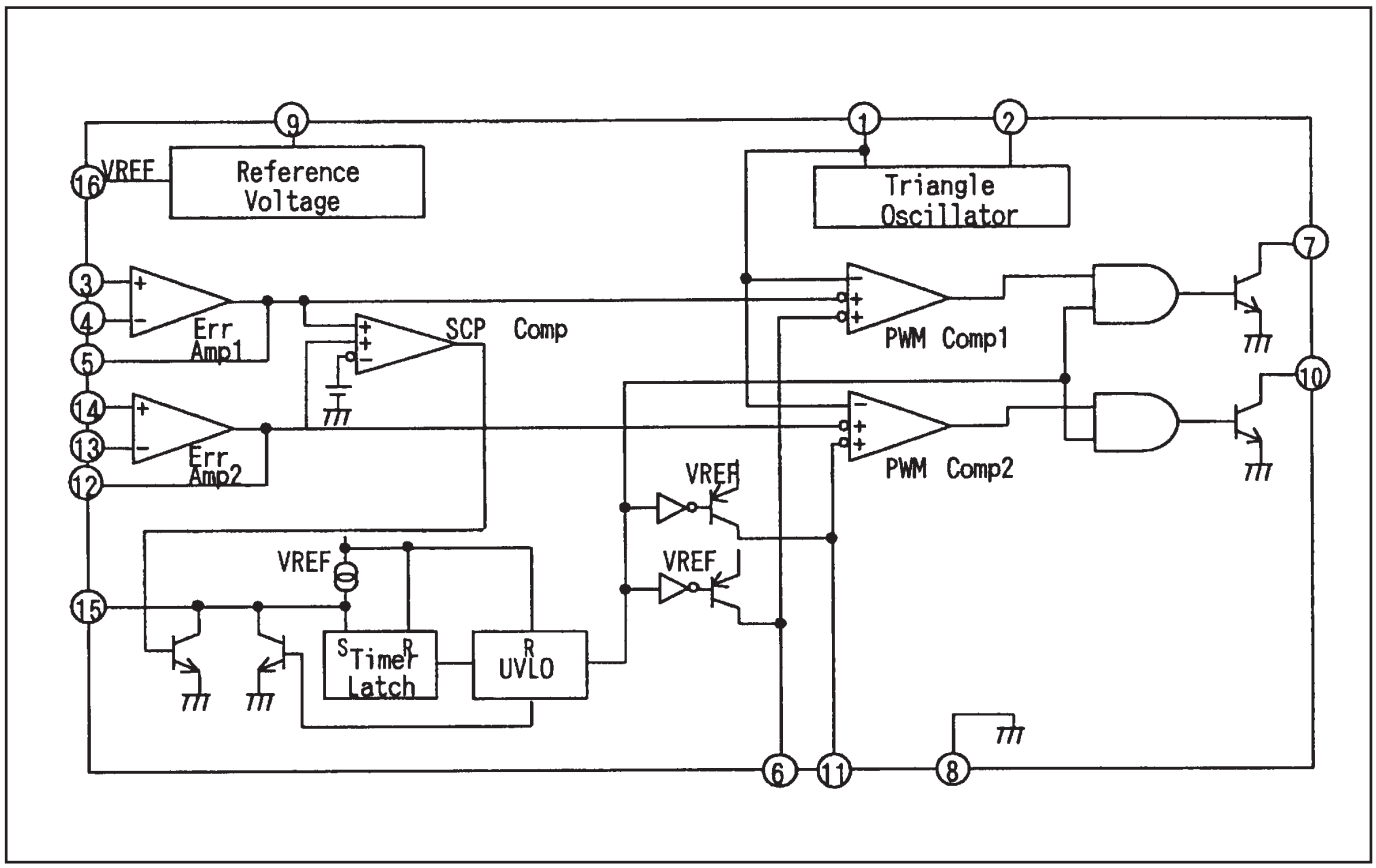
● AN5870SB <RGB SW, G_Sync Separator, IC5201>



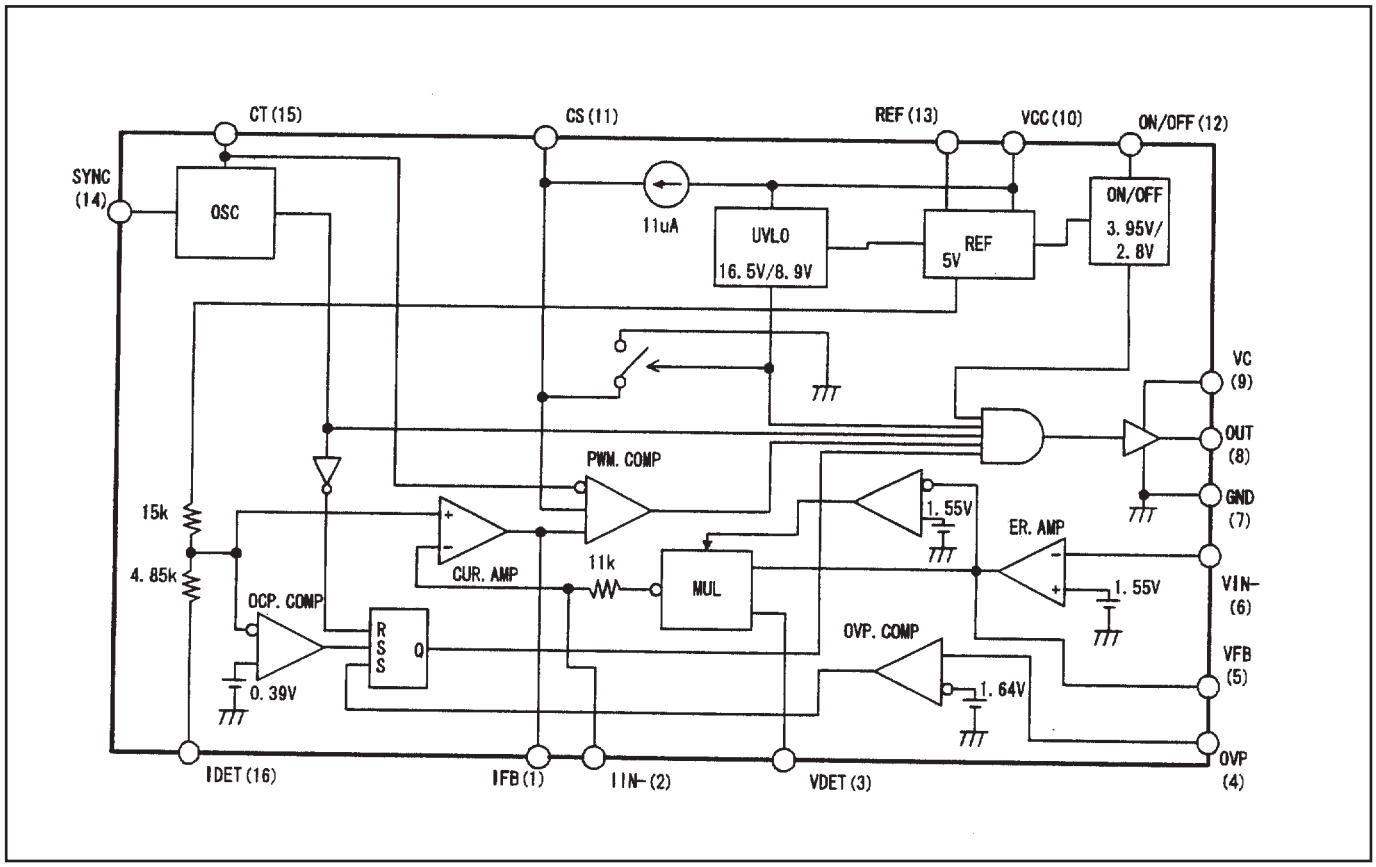
● BA7078AF <Sync Detector, IC5301>



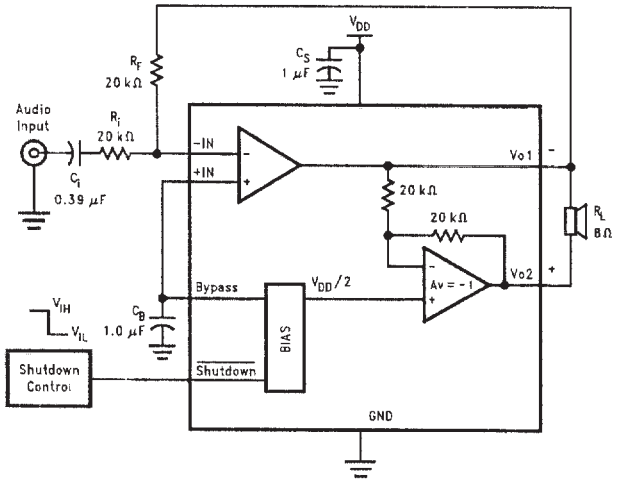
● BA9743AFV <DC-DC Converter, IC371>



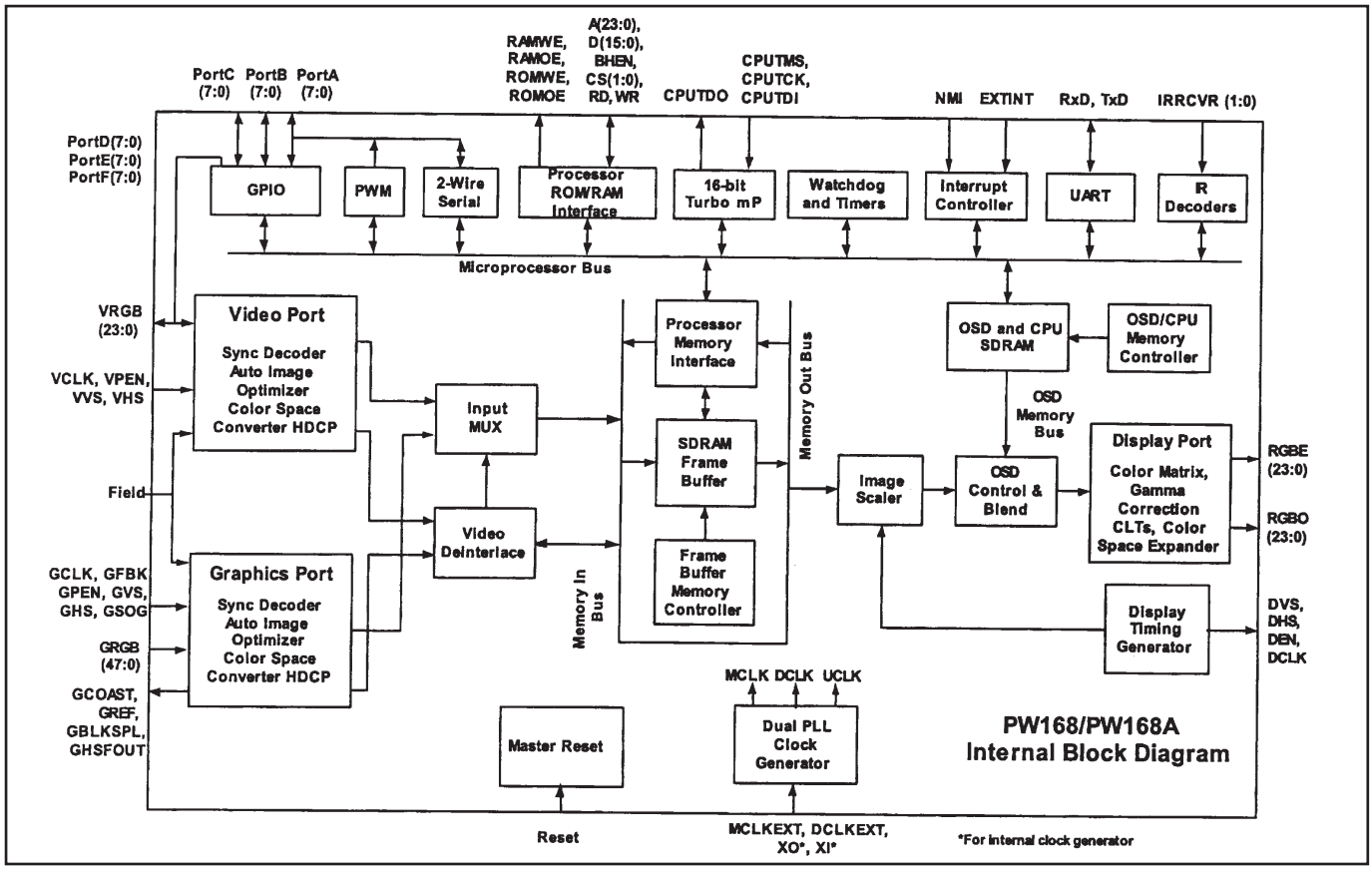
● FA5502 <P.F. Control, IC621>



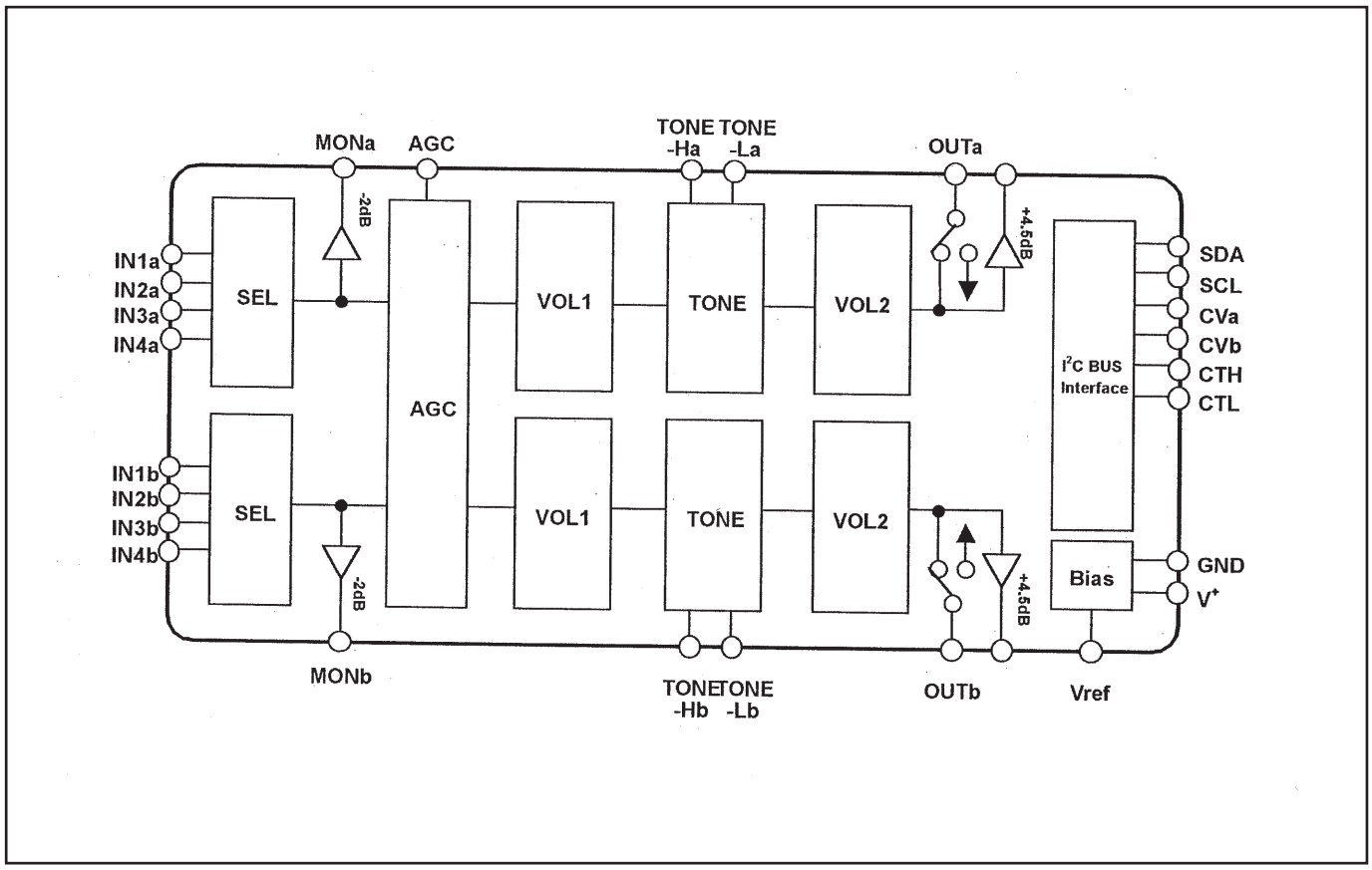
● LM4889M <Audio Amplifier , IC5031>



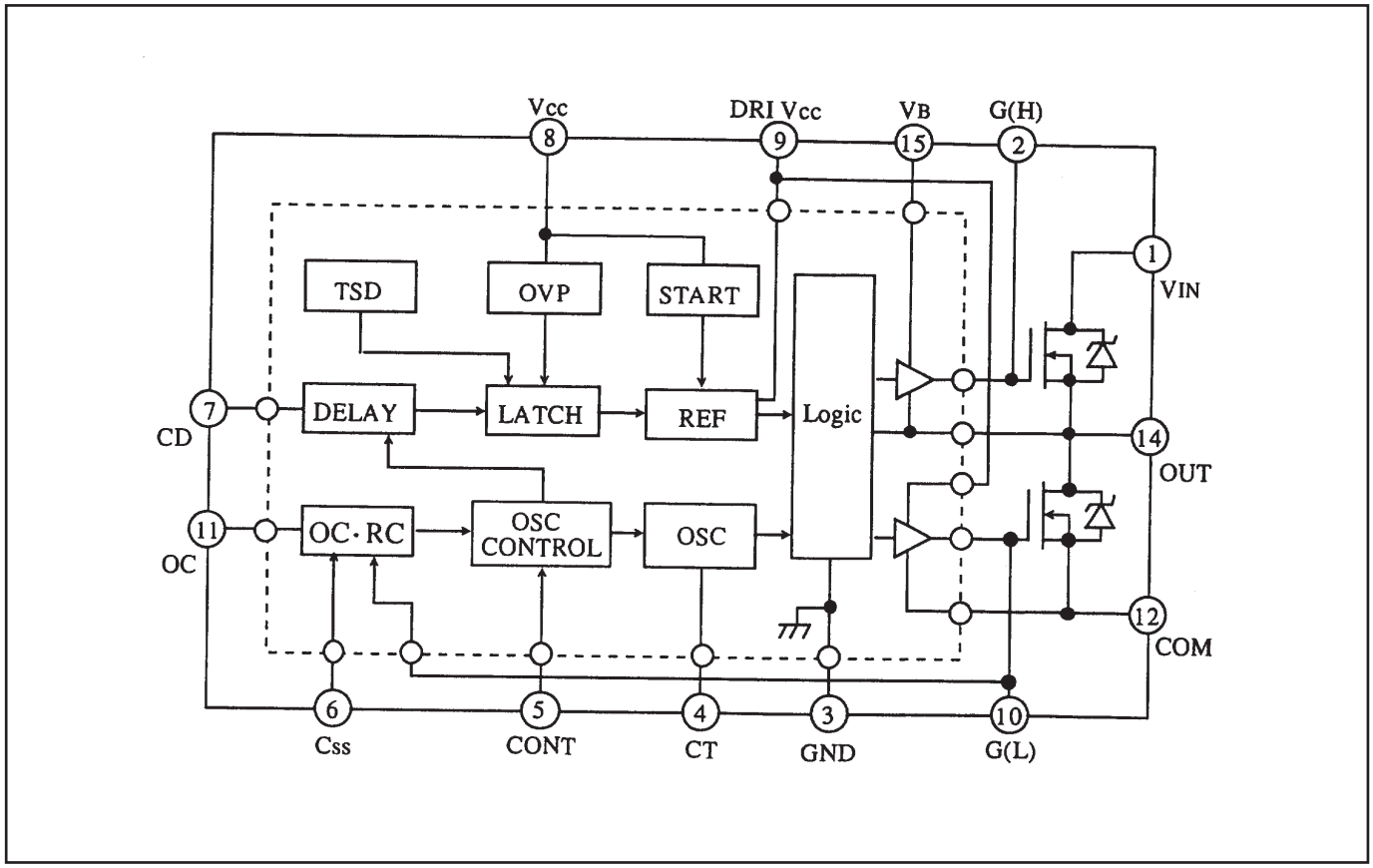
● PW168A <Scaler, Main CPU, IC301>



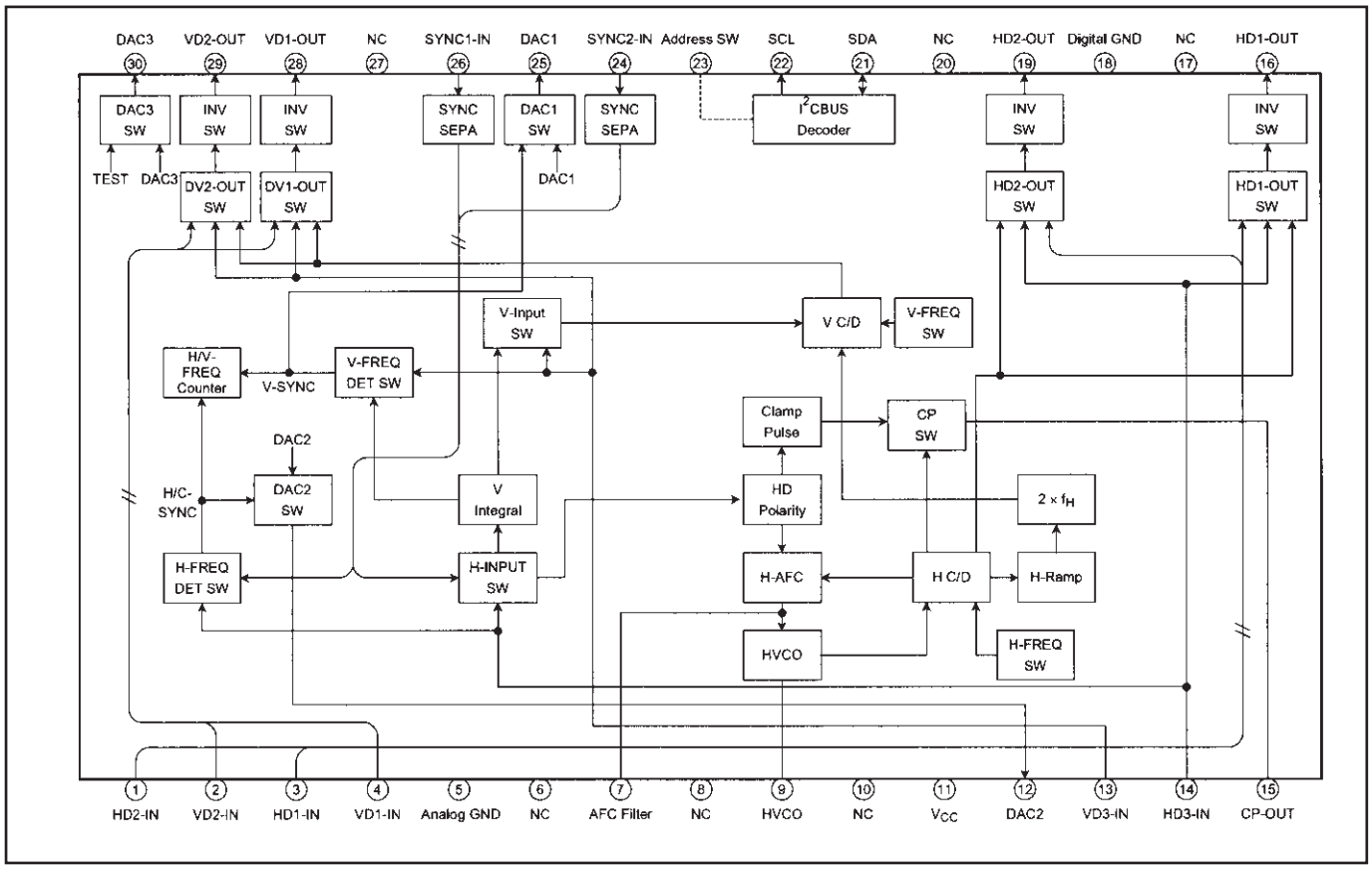
● NJW1141 <Audio Selector, IC5001>



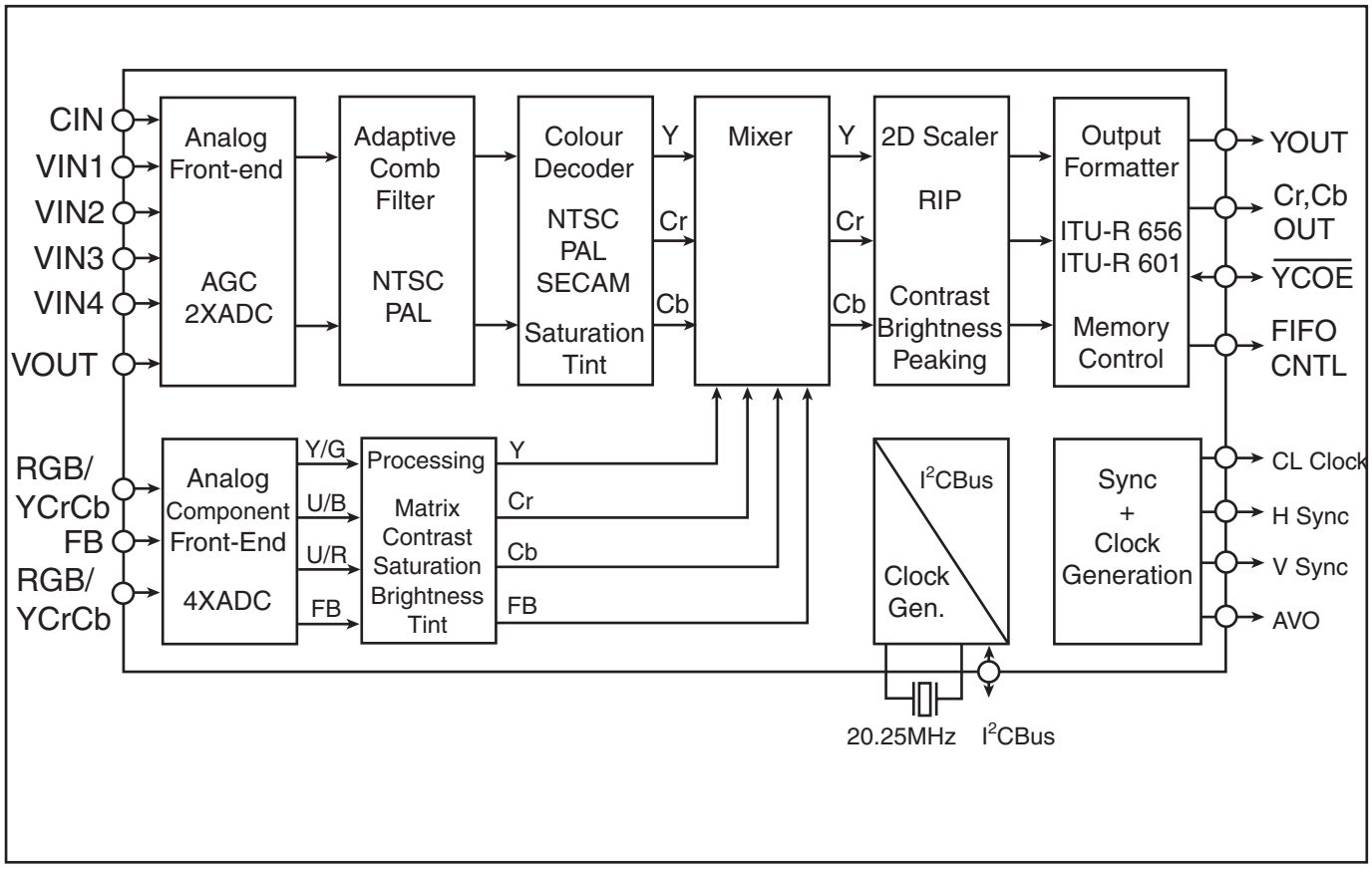
● STR-Z2156 <Power Switching Control, IC631>



● TA1370FG <Sync Separator, Frequency Counter, IC5302>



● VPC3230D <Video Decoder, IC101>



■ Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

- 50V: Rated Voltage
- K: Tolerance Symbols:

Less than 10pF

A : Not specified	B : ±0.1pF	C : ±0.25pF
D : ±0.5pF	E : +0 -1pF	F : ±1PF
G : ±2pF	H : +0.1 -0pF	L : +0 -0.1pF
R : ±0.25 -0pF	S : +0-0.25pF	

More than 10pF

A : Not specified	B : ±0.1%	C : ±0.25%
D : ±0.5%	F : ±1%	G : ±2%
H : ±3%	J : ±5%	K : ±10%
L : ±15%	M : ±20%	N : ±30%
P : +100-0%	Q : +30-10%	T : +50-10%
U : +75-10%	V : +20-10%	W : +100-10%
X : +40-20%	Y : +150-10%	Z : +80-20%

- 100P: Rated value: P=pico farad, U=micro farad
- CERAMIC: Material:

CERAMIC	Ceramic
MT-PAPER	Metallized Paper
POLYESTER	Polyester
MT-POLYEST	Metallized Polyester
POLYPRO	Polypropylene
MT-POLYPRO	Metallized Polypropylene
COMPO FILM	Composite film
MT-COMPO	Metallized Composite
STYRENE	Styrene
TA-SOLID	Tantalum Oxide Solid Electrolytic
AL-SOLID	Aluminium Solid Electrolytic
ELECT	Aluminum Foil Electrolytic
NP-ELECT	Non-polarised Electrolytic
OS-SOLID	Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID	Polymerized Organic Semiconductive
DL-ELECT	Double Layered Electrolytic
PPS-FILM	Polyphenylene Sulfide Film
MT-PPS-FILM	Metalized Polyphenylene Sulfide Film
MT-PEN-FILM	Metalized Polyethylenenaphthalate Film
CAPACITOR	Other

RESISTOR CARBON 4.7K J A 1/4W

- 1/4W: Rated Wattage
- A: Performance Symbols:
  A: General B: Non flammable Z: Low noise
  Other: Temperature coefficient

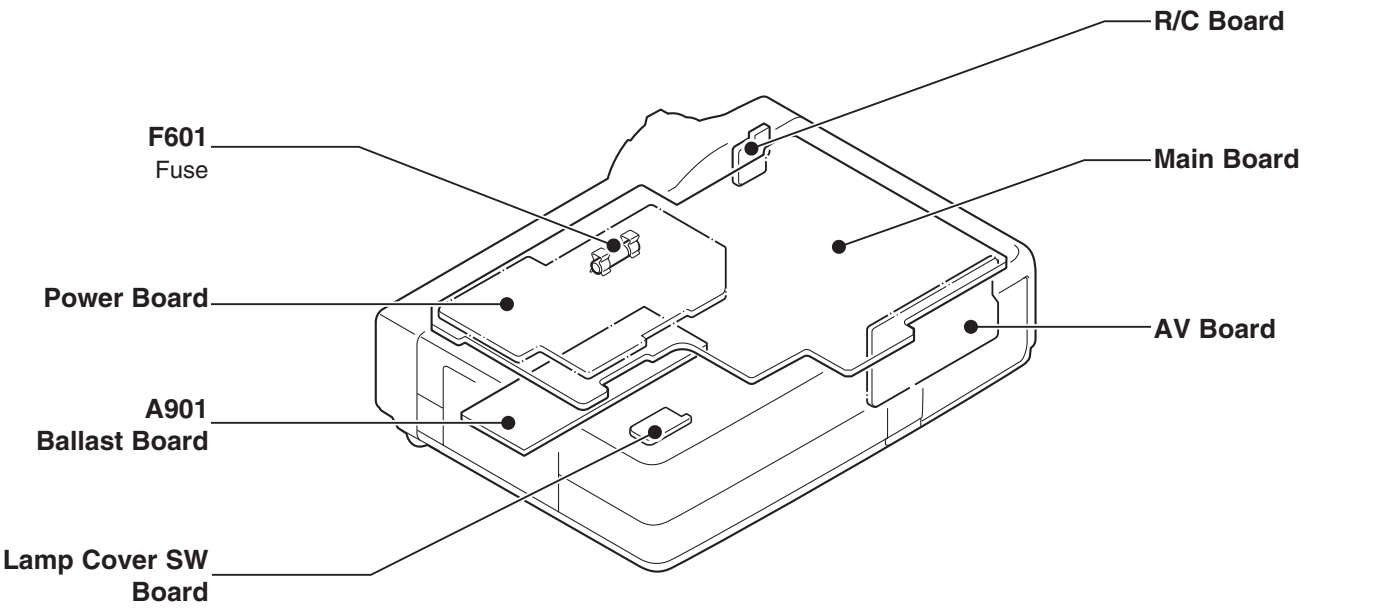
T: ±10ppm/°C	U: ±25ppm/°C	C: ±50ppm/°C
D: ±100ppm/°C	E: ±200ppm/°C	F: ±250ppm/°C
G: ±350ppm/°C	H: ±1000ppm/°C±10%	W: ±1200ppm/°C±10%
Y: ±1400ppm/°C±10%	J: ±2000ppm/°C±10%	K: ±2400ppm/°C±10%
L: ±2700ppm/°C±10%	M: ±3000ppm/°C±10%	N: ±3300ppm/°C±10%
P: ±3600ppm/°C±10%	Q: ±3900ppm/°C±10%	R: ±4200ppm/°C±10%
S: ±4300ppm/°C±10%	V: ±4500ppm/°C±10%	X: ±8000ppm/°C±10%

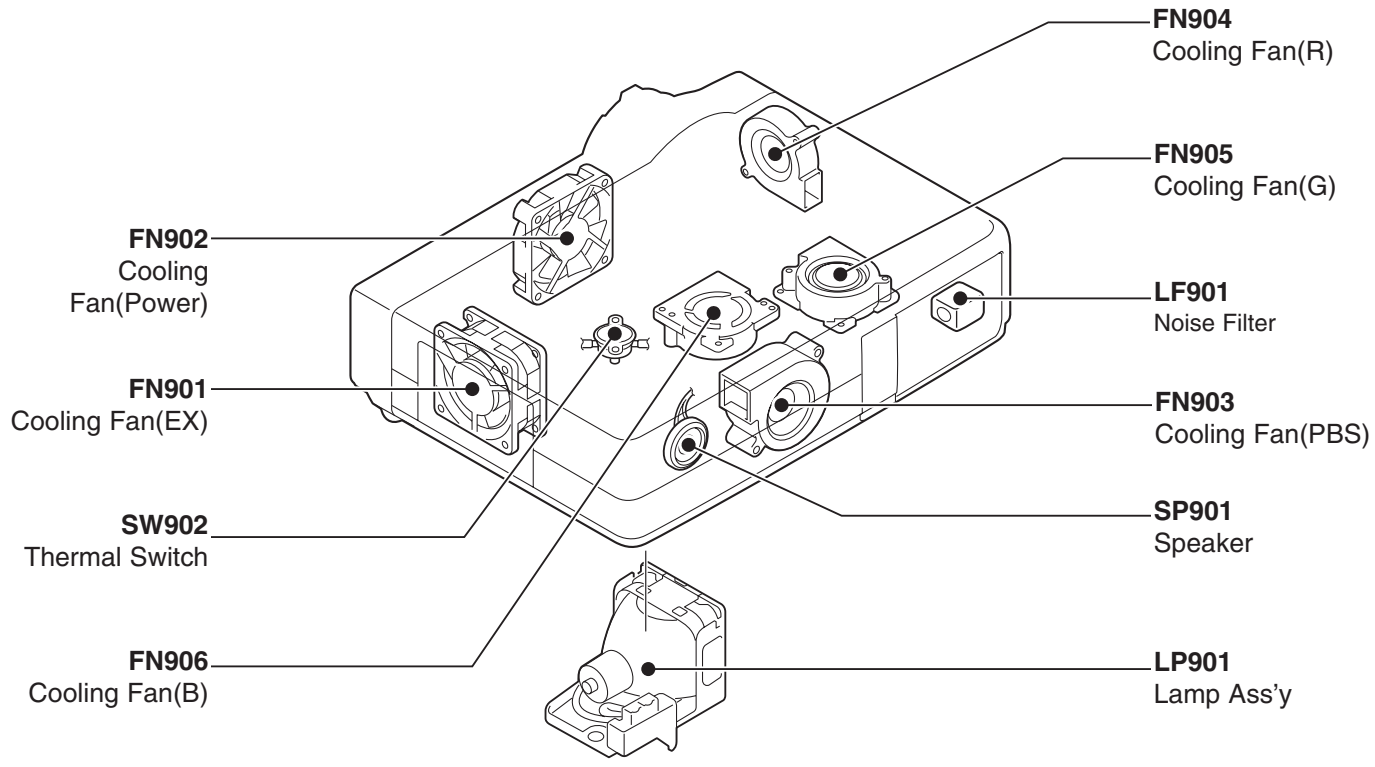
- J: Tolerance Symbols:
  A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
  F: ±1% G: ±2% J: ±5% K: ±10%
  M: ±20% P: +5-15% Z: 0 ohm
- 4.7K: Rated value, ohms:
  K: 1,000, M: 1,000,000
- CARBON: Material:

CARBON	Carbon
MT-FILM	Metal Film
OXIDE-MT	Oxide Metal Film
SOLID	Composition
MT-GLAZE	Metal Glaze
WIRE WOUND	Wire Wound
CERAMIC RES.	Ceramic
FUSIBLE RES.	Fusible
RESISTOR	Other

Note: Parts order must contain Chassis No., Part No., and Descriptions.

● OUT OF CIRCUIT BOARD





Key No.	Part No.	Description

ASSEMBLIED BOARDS

⚠	**610 314 8526**	**ASSY,PWB,POWER. MY7A**
⚠	**610 314 8533**	**ASSY,PWB,LAMP COVER SW.**
⚠	**610 318 7945**	**ASSY,PWB,MAIN_DDC SERVICE MY7A**
⚠	**610 314 4252**	**ASSY,PWB,R/CS. MY7A**
⚠	**610 314 2296**	**ASSY,PWB,AV MY7A**

OUT OF CIRCUIT BOARD

⚠	LF901	645 062 3134	UNIT,NOISE FILTER
⚠	LP900	610 315 5647	COMPL,OPTICAL LAMP MY7A
⚠	A901	645 068 1431	UNIT,BALLAST
⚠	FN901	645 054 9120	MOTOR,FAN DC 2.64W
⚠	FN902	645 062 3059	MOTOR,FAN DC 2.40W
⚠	FN903	645 062 3042	MOTOR,FAN DC 2.16W
⚠	FN904	645 062 3110	MOTOR,FAN DC 2.16W
⚠	FN905	645 062 3103	MOTOR,FAN DC 3.6W
⚠	FN906	645 062 3103	MOTOR,FAN DC 3.6W
	SP901	645 049 0736	SPEAKER,8
⚠	SW902	645 050 3580	SWITCH,THERMAL
	WK8D-28D	645 053 2566	CORD,ID CONNECTOR

POWER BOARD

610 314 8526 ASSY,PWB,POWER. MY7A

TRANSISTOR

Q611	405 140 3704	TR 2SK2698
Q621	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q622	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q642	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q651	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q661	405 047 9007	TR 2SB1204-S-TL
	405 047 9106	TR 2SB1204-T-TL
Q662	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S

INTEGRATED CIRCUIT

IC621	409 523 1400	IC FA5502M
IC631	409 558 4209	IC STR-Z2156A
IC651	409 344 6509	IC UPC1093T-E1

CAPACITOR

C601	404 081 4702	MT-POLYEST	0.22U M	275V
C602	404 081 4702	MT-POLYEST	0.22U M	275V
C611	403 222 1303	CERAMIC	1000P K	1K
C612	403 222 1303	CERAMIC	1000P K	1K
C613	403 372 0003	MT-POLYEST	2.2U K	400V
C614	403 372 0003	MT-POLYEST	2.2U K	400V
C615	404 095 1100	ELECT	180U M	450V
	404 095 1209	ELECT	180U M	450V
C616	403 371 8604	MT-POLYEST	0.1U K	450V
C62A	403 157 3304	CERAMIC	68P J	50V
C62B	403 157 6602	CERAMIC	470P K	50V
C62C	403 325 6304	CERAMIC	0.22U K	10V
C62D	403 164 0204	CERAMIC	0.1U Z	25V
C62E	403 164 0204	CERAMIC	0.1U Z	25V
C62I	403 149 9208	CERAMIC	0.01U Z	50V
C62J	403 169 2807	CERAMIC	330P J	50V
C62K	403 323 3602	CERAMIC	0.047U K	50V
C62M	403 164 0204	CERAMIC	0.1U Z	25V
C62R	403 175 3706	ELECT	4.7U M	50V
C62T	403 164 0204	CERAMIC	0.1U Z	25V
C631	403 192 4809	TA-SOLID	2.2U M	35V
C633	403 113 3805	CERAMIC	1000P K	50V
C634	403 247 3306	CERAMIC	330P K	2K
C635	403 167 8603	CERAMIC	220P K	2K
C636	403 070 2606	CERAMIC	0.1U Z	50V
C637	403 157 6800	CERAMIC	680P K	50V
C638	403 208 1402	TA-SOLID	1U M	25V
	403 411 5709	TA-SOLID	1U M	25V
C639	403 356 1804	ELECT	220U M	35V
C640	403 164 0204	CERAMIC	0.1U Z	25V
C641	403 352 8203	CERAMIC	0.47U Z	16V
C642	403 083 4307	POLYPRO	0.022U J	400V
C643	403 256 2406	CERAMIC	0.22U Z	50V
C644	403 164 0204	CERAMIC	0.1U Z	25V
C651	403 369 2409	ELECT	2700U M	25V
C652	403 350 5303	ELECT	3900U M	10V
C653	403 331 0303	ELECT	470U M	16V
C654	403 164 0204	CERAMIC	0.1U Z	25V
C655	403 164 0204	CERAMIC	0.1U Z	25V
C656	403 345 9606	CERAMIC	0.47U K	10V
C657	403 157 6404	CERAMIC	330P K	50V
C658	403 157 6404	CERAMIC	330P K	50V
C659	403 218 8101	ELECT	1000U M	25V
C691	403 233 0401	ELECT	330U M	25V
C693	403 206 9004	ELECT	1000U M	6.3V
C694	403 206 9004	ELECT	1000U M	6.3V

RESISTOR

R601	401 287 5700	MT-GLAZE	220K JA	1W
R611	402 088 0109	RESISTER	0.15 KA	2W
R612	402 088 0109	RESISTER	0.15 KA	2W
R615	401 242 3901	MT-GLAZE	240K JA	1/2W
R616	401 242 3901	MT-GLAZE	240K JA	1/2W

Key No.	Part No.	Description
R617	401 259 9002	MT-GLAZE 150K FA 1/2W
R618	401 259 9002	MT-GLAZE 150K FA 1/2W
R619	401 259 9002	MT-GLAZE 150K FA 1/2W
R61A	401 275 2902	MT-GLAZE 68K JA 1W
R61B	401 275 2902	MT-GLAZE 68K JA 1W
R61E	401 275 2902	MT-GLAZE 68K JA 1W
R61F	401 275 2902	MT-GLAZE 68K JA 1W
R620	401 259 9002	MT-GLAZE 150K FA 1/2W
R623	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R62A	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R62B	401 105 0603	MT-GLAZE 10K JA 1/16W
R62C	401 105 5509	MT-GLAZE 470K JA 1/16W
R62D	401 105 3802	MT-GLAZE 30K JA 1/16W
R62E	401 113 5805	MT-GLAZE 1.1K JA 1/16W
R62F	401 218 4406	MT-GLAZE 1.2K FA 1/16W
R62G	401 105 0405	MT-GLAZE 100 JA 1/16W
R62H	401 105 4007	MT-GLAZE 330 JA 1/16W
R62I	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R62J	401 105 1907	MT-GLAZE 180 JA 1/16W
R62L	401 113 6109	MT-GLAZE 2.4K JA 1/16W
R62M	401 105 4502	MT-GLAZE 390 JA 1/16W
R62P	401 105 5400	MT-GLAZE 47K JA 1/16W
R62Q	401 105 2607	MT-GLAZE 22 JA 1/16W
R62R	401 177 2208	MT-GLAZE 5.6M JA 1/16W
R62T	401 105 3000	MT-GLAZE 220K JA 1/16W
⚠R631	424 006 1302	FUSE 250V 2.5A
⚠R633	402 079 7803	FUSIBLE RES 22 JH 1/4W
R634	401 238 4509	MT-GLAZE 47 JA 1/3W
R635	401 105 0504	MT-GLAZE 1K JA 1/16W
R636	401 257 7406	MT-GLAZE 120 JA 1/3W
R637	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R638	401 105 0603	MT-GLAZE 10K JA 1/16W
R639	401 113 6109	MT-GLAZE 2.4K JA 1/16W
R641	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R646	401 111 6309	MT-GLAZE 470 JA 1/2W
R647	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R648	401 105 1600	MT-GLAZE 15K JA 1/16W
R651	401 105 0504	MT-GLAZE 1K JA 1/16W
R652	401 105 0306	MT-GLAZE 10 JA 1/16W
R653	401 186 0202	MT-GLAZE 10K DA 1/16W
R654	401 185 9305	MT-GLAZE 560 DA 1/16W
R655	401 185 9503	MT-GLAZE 6.8K DA 1/16W
R656	401 105 3208	MT-GLAZE 270 JA 1/16W
R657	401 105 0504	MT-GLAZE 1K JA 1/16W
R658	401 105 0504	MT-GLAZE 1K JA 1/16W
R659	401 105 0504	MT-GLAZE 1K JA 1/16W
R660	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R661	401 105 0603	MT-GLAZE 10K JA 1/16W
R662	401 230 8000	MT-GLAZE 1K JA 1/3W
R663	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R664	401 105 0603	MT-GLAZE 10K JA 1/16W
VARIABLE RESISTOR		
⚠VA601	408 018 9808	VARISTOR ENC471D-14AS
VR611	645 025 7414	VR,SEMI,1K S
TRANSFORMER		
⚠T651	645 030 7126	TRANS,POWER,PULSE
	645 069 2796	TRANS,POWER,PULSE
TSW611	645 063 8756	THERMOSTATS
COIL		
⚠L601	645 050 2231	LINE FILTER
⚠L611	645 048 3899	LINE FILTER
L612	645 062 3561	INDUCTOR,900U
L694	645 059 2065	INDUCTOR,10U K
DIODE		
D611	407 191 3900	DIODE FML-G16S
D612	407 149 6304	DIODE SFPB-54V
D616	407 149 0807	DIODE 1SS355-TE-17
D617	407 149 0807	DIODE 1SS355-TE-17
D618	407 149 0807	DIODE 1SS355-TE-17
D619	407 149 0807	DIODE 1SS355-TE-17
D62R	407 149 0807	DIODE 1SS355-TE-17
D631	407 190 4106	DIODE SFPL-52V
D633	407 187 8209	ZENER DIODE UDZ12B-TE-17
D636	407 226 7101	DIODE SC311-06
D651	407 222 9604	DIODE FMB-2306
D652	407 222 9703	DIODE FMJ-23L
D653	407 190 4106	DIODE SFPL-52V
D654	407 209 1201	ZD UDZS-TE-176.2B
DB611	407 202 7705	DIODE D10XB60
DS643	407 219 0805	THYRISTOR TF861S
MISCELLANEOUS		
F601	423 021 7801	FUSE 250V 6.3A
FB611	610 244 3974	CORE
FB613	610 244 3974	CORE
FB691	610 244 3974	CORE
FB693	610 244 3974	CORE
⚠PC641	407 223 7302	PC TLP421F(D4-GB-TP4)
	407 223 8309	PC TLP421F(D4-GR-TP4)
⚠PC642	407 223 7302	PC TLP421F(D4-GB-TP4)
	407 223 8309	PC TLP421F(D4-GR-TP4)
⚠PC643	407 223 7302	PC TLP421F(D4-GB-TP4)
	407 223 8309	PC TLP421F(D4-GR-TP4)
PTH611	408 037 5508	THERMISTOR NTH11D5R0LC

LAMP COVER SW BOARD

610 314 8533 ASSY,PWB,LAMP COVER SW.

SW901	645 063 8077	SWITCH,PUSH 2P-2TX3

MAIN BOARD

610 318 7945 ASSY,PWB,MAIN_DDC SERVICE MY7A

ASSY,PWB,MAIN MY7A

TRANSISTOR		
Q101	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1841	405 045 8705	TR 2SK536-TB
Q1842	405 045 8705	TR 2SK536-TB
Q1843	405 045 8705	TR 2SK536-TB
Q1844	405 045 8705	TR 2SK536-TB
Q2501	405 002 8304	TR 2SA1203-Y-TE12L
Q2502	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2851	405 014 4509	TR 2SC2412K T146 R

Key No.	Part No.	Description
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2852	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2853	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2854	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q301	405 045 8705	TR 2SK536-TB
Q3541	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3581	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3582	405 002 8304	TR 2SA1203-Y-TE12L
Q3601	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q371	406 017 8402	TR RTQ025P02-TR
Q372	406 017 8402	TR RTQ025P02-TR
Q373	405 139 7706	TR IMZ1A-T108
Q374	405 139 7706	TR IMZ1A-T108
Q5031	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5032	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5033	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5034	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5036	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5061	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5062	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5063	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5064	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R

Key No.	Part No.	Description
	405 173 9902	TR 2SC3928A1S
Q5081	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5301	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5302	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5303	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5304	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5306	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5341	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5342	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q7801	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q7861	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q7862	405 047 9007	TR 2SB1204-S-TL
	405 047 9106	TR 2SB1204-T-TL
Q7864	405 139 7706	TR IMZ1A-T108
Q7911	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q7912	405 047 9007	TR 2SB1204-S-TL
	405 047 9106	TR 2SB1204-T-TL
Q7914	405 139 7706	TR IMZ1A-T108
Q9821	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
INTEGRATED CIRCUIT		
IC101	410 401 4604	IC VPC3230D-QA-B3
IC161	409 416 6406	IC BA033FP-E2
	409 588 6303	IC BA33BC0FP
IC1801	410 346 8804	IC TC74LCX574FT
IC1802	410 346 8804	IC TC74LCX574FT
IC1803	410 346 8804	IC TC74LCX574FT
IC1804	410 346 8804	IC TC74LCX574FT
IC1811	410 362 6501	IC TC74LCX541FT
IC1821	410 362 6501	IC TC74LCX541FT
IC1841	409 533 6006	IC 24LC32AT-I/SN
IC1861	410 337 0602	IC HD74LVC14T
IC1871	409 347 5400	IC M51204FP-600C
IC301	410 534 1501	IC PW168A-10V
IC341	409 480 1307	IC PST573IM
IC3501	409 246 9707	IC LA6358NM-TE-L
IC351	409 350 2908	IC TC7W126FU-(TE12L)
IC3531	409 422 5806	IC M62398FP
IC3541	409 398 1901	IC L88MS05TL-TL
IC361	409 520 5609	IC TC7WZ32FU
IC371	409 555 6305	IC BA9743AFV-E2
IC392	409 534 1703	IC SI-3025LSA-TL
IC401	409 554 1301	IC L3E07070K0A

Electrical Parts List

Key No.	Part No.	Description
IC4801	409 431 6009	IC MC74VHC14DT
IC4851	409 400 9208	IC TC7SET32FU-(TE85L)
IC4852	409 400 9109	IC TC7SET08FU-(TE85L)
IC491	409 555 6404	IC SI-3018KS-TL
IC5001	409 564 1506	IC NJW1141M
IC5031	409 594 1903	IC LM4889MM
IC5081	409 398 1901	IC L88MS05TL-TL
IC5301	409 484 2003	IC BA7078AF-E2
IC5302	409 545 7503	IC TA1370FG
IC5303	410 488 3408	IC TC74LVX125FT
IC5601	409 416 6505	IC BA05FP-E2
	409 591 8608	IC BA50BC0FP
IC5631	409 555 6503	IC SI-3033ZD-TL
IC5641	409 563 9602	IC SI-3012KS-TL
IC5642	409 497 6302	IC BA09FP-E2
IC7861	409 531 6206	IC FA7701V-TE1
IC7911	409 531 6206	IC FA7701V-TE1
IC7961	409 458 3401	IC M62393FP
IC801	410 519 4107	IC MBM29DL32TF70-0548
IC8201	410 519 2004	IC AD9883AKSTZ-140
IC821	409 155 8006	IC TC7S04F-TE85L
IC822	409 520 5609	IC TC7WZ32FU
IC823	409 155 8006	IC TC7S04F-TE85L
IC824	409 520 5609	IC TC7WZ32FU
IC8811	409 481 8602	IC LM76CHMX-5
IC8821	409 481 8602	IC LM76CHMX-5
IC8831	409 481 8602	IC LM76CHMX-5
IC9401	410 505 5903	IC LC98500BT-YE5-E
IC9801	409 565 9600	IC SP232AEN
IC9861	409 502 5108	IC PDIUSBD12PW-118
CAPACITOR		
C101	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C102	403 397 9203	CERAMIC 0.68U K 10V
	403 375 5104	CERAMIC 0.68U K 10V
C104	403 397 9203	CERAMIC 0.68U K 10V
	403 375 5104	CERAMIC 0.68U K 10V
C107	403 397 9203	CERAMIC 0.68U K 10V
	403 375 5104	CERAMIC 0.68U K 10V
C109	403 397 9203	CERAMIC 0.68U K 10V
	403 375 5104	CERAMIC 0.68U K 10V
C112	403 397 9203	CERAMIC 0.68U K 10V
	403 375 5104	CERAMIC 0.68U K 10V
C113	403 215 0900	CERAMIC 390P J 50V
C114	403 281 5205	CERAMIC 0.22U Z 16V
C116	403 155 2101	CERAMIC 1500P K 50V
C117	403 215 0900	CERAMIC 390P J 50V
C118	403 379 6701	CERAMIC 10U K 16V
C119	403 205 2808	CERAMIC 0.047U K 25V
C124	403 281 5205	CERAMIC 0.22U Z 16V
C126	403 281 5205	CERAMIC 0.22U Z 16V
C127	403 281 5205	CERAMIC 0.22U Z 16V
C128	403 164 0204	CERAMIC 0.1U Z 25V
C129	403 164 0204	CERAMIC 0.1U Z 25V
C131	403 164 0204	CERAMIC 0.1U Z 25V
C132	403 378 3107	CERAMIC 47U Z 6.3V
C133	403 164 0204	CERAMIC 0.1U Z 25V
C134	403 281 5205	CERAMIC 0.22U Z 16V
C136	403 155 2101	CERAMIC 1500P K 50V
C137	403 215 0900	CERAMIC 390P J 50V
C138	403 155 2101	CERAMIC 1500P K 50V
C139	403 205 2808	CERAMIC 0.047U K 25V
C141	403 307 7008	CERAMIC 0.068U K 16V
C142	403 307 7008	CERAMIC 0.068U K 16V
C143	403 307 7008	CERAMIC 0.068U K 16V
C144	403 307 7008	CERAMIC 0.068U K 16V
C146	403 164 0204	CERAMIC 0.1U Z 25V
C147	403 310 8306	CERAMIC 10U Z 10V
C148	403 157 1508	CERAMIC 3P C 50V
C149	403 157 1508	CERAMIC 3P C 50V
C151	403 281 5205	CERAMIC 0.22U Z 16V
C152	403 155 2101	CERAMIC 1500P K 50V
C153	403 215 0900	CERAMIC 390P J 50V
C154	403 379 6701	CERAMIC 10U K 16V
C156	403 205 2808	CERAMIC 0.047U K 25V
C161	403 379 6701	CERAMIC 10U K 16V
C162	403 164 0204	CERAMIC 0.1U Z 25V
C163	403 394 9305	ELECT 220U M 6.3V
C164	403 164 0204	CERAMIC 0.1U Z 25V
C1821	403 164 0204	CERAMIC 0.1U Z 25V
C1841	403 164 0204	CERAMIC 0.1U Z 25V
C1863	403 164 0204	CERAMIC 0.1U Z 25V
C1871	403 283 6309	CERAMIC 1U Z 10V
C1872	403 283 6309	CERAMIC 1U Z 10V
C1873	403 283 6309	CERAMIC 1U Z 10V
C2506	403 391 5102	ELECT 100U M 16V
C2507	403 164 0204	CERAMIC 0.1U Z 25V
C2521	403 164 0204	CERAMIC 0.1U Z 25V
C2522	403 164 0204	CERAMIC 0.1U Z 25V
C2523	403 164 0204	CERAMIC 0.1U Z 25V
C2524	403 391 5706	ELECT 4.7U M 25V
C2526	403 398 3903	ELECT 33U M 16V
C2527	403 164 0204	CERAMIC 0.1U Z 25V
C2531	403 164 0204	CERAMIC 0.1U Z 25V
C2532	403 164 0204	CERAMIC 0.1U Z 25V
C2533	403 391 5706	ELECT 4.7U M 25V
C2534	403 164 0204	CERAMIC 0.1U Z 25V
C2536	403 398 3903	ELECT 33U M 16V
C2537	403 164 0204	CERAMIC 0.1U Z 25V
C2541	403 164 0204	CERAMIC 0.1U Z 25V
C2542	403 164 0204	CERAMIC 0.1U Z 25V
C2543	403 164 0204	CERAMIC 0.1U Z 25V
C2544	403 391 5706	ELECT 4.7U M 25V
C2546	403 398 3903	ELECT 33U M 16V
C2547	403 164 0204	CERAMIC 0.1U Z 25V
C2851	403 164 0204	CERAMIC 0.1U Z 25V
C2852	403 379 6701	CERAMIC 10U K 16V
C301	403 394 9305	ELECT 220U M 6.3V
C314	403 164 0204	CERAMIC 0.1U Z 25V
C316	403 164 0204	CERAMIC 0.1U Z 25V
C319	403 164 0204	CERAMIC 0.1U Z 25V
C321	403 164 0204	CERAMIC 0.1U Z 25V
C324	403 164 0204	CERAMIC 0.1U Z 25V
C326	403 164 0204	CERAMIC 0.1U Z 25V
C329	403 164 0204	CERAMIC 0.1U Z 25V
C331	403 164 0204	CERAMIC 0.1U Z 25V
C332	403 164 0204	CERAMIC 0.1U Z 25V
C333	403 164 0204	CERAMIC 0.1U Z 25V
C339	403 139 7306	CERAMIC 18P J 50V
C341	403 139 7306	CERAMIC 18P J 50V
C343	403 283 6309	CERAMIC 1U Z 10V
C344	403 283 6309	CERAMIC 1U Z 10V
C3502	403 298 9609	CERAMIC 0.1U K 16V
C3503	403 298 9609	CERAMIC 0.1U K 16V
C3506	403 298 9609	CERAMIC 0.1U K 16V
C352	403 149 9208	CERAMIC 0.01U Z 50V
C353	403 149 9208	CERAMIC 0.01U Z 50V
C3531	403 164 0204	CERAMIC 0.1U Z 25V
C3532	403 164 0204	CERAMIC 0.1U Z 25V
C354	403 164 0204	CERAMIC 0.1U Z 25V
C3541	403 398 4108	ELECT 47U M 16V
C3543	403 394 1309	ELECT 100U M 6.3V
C3544	403 164 0204	CERAMIC 0.1U Z 25V
C3555	403 341 3905	POS-SOLID 100U M 6.3V
C3581	403 394 1309	ELECT 100U M 6.3V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C361	403 113 3805	CERAMIC 1000P K 50V	C5003	403 215 2201	CERAMIC 0.01U K 50V
C371	403 283 6309	CERAMIC 1U Z 10V	C5004	403 298 9609	CERAMIC 0.1U K 16V
C372	403 283 6309	CERAMIC 1U Z 10V	C5006	403 298 9609	CERAMIC 0.1U K 16V
C373	403 164 0204	CERAMIC 0.1U Z 25V	C5007	403 215 2201	CERAMIC 0.01U K 50V
C374	403 325 6304	CERAMIC 0.22U K 10V	C5008	403 215 2201	CERAMIC 0.01U K 50V
C376	403 113 4109	CERAMIC 2200P K 50V	C5009	403 298 9609	CERAMIC 0.1U K 16V
C377	403 164 0204	CERAMIC 0.1U Z 25V	C501	403 392 1202	ELECT 47U M 6.3V
C378	403 394 9305	ELECT 220U M 6.3V	C5011	403 071 8102	CERAMIC 2200P K 50V
C379	403 169 2807	CERAMIC 330P J 50V	C5012	403 298 9609	CERAMIC 0.1U K 16V
C381	403 155 2309	CERAMIC 4700P K 50V	C5013	403 283 6309	CERAMIC 1U Z 10V
C382	403 379 6701	CERAMIC 10U K 16V	C5014	403 283 6309	CERAMIC 1U Z 10V
C384	403 215 2102	CERAMIC 8200P K 50V	C5016	403 071 8102	CERAMIC 2200P K 50V
C386	403 347 5507	POS-SOLID 470U M 4V	C5017	403 298 9609	CERAMIC 0.1U K 16V
C387	403 164 0204	CERAMIC 0.1U Z 25V	C5018	403 279 4302	CERAMIC 0.33U K 16V
C388	403 164 0204	CERAMIC 0.1U Z 25V	C5019	403 283 6309	CERAMIC 1U Z 10V
C390	403 394 1309	ELECT 100U M 6.3V	C502	403 164 0204	CERAMIC 0.1U Z 25V
C391	403 164 0204	CERAMIC 0.1U Z 25V	C5021	403 283 6309	CERAMIC 1U Z 10V
C393	403 215 2102	CERAMIC 8200P K 50V	C5022	403 283 6309	CERAMIC 1U Z 10V
C394	403 347 5507	POS-SOLID 470U M 4V	C5023	403 283 6309	CERAMIC 1U Z 10V
C396	403 164 0204	CERAMIC 0.1U Z 25V	C5024	403 397 6301	ELECT 22U M 16V
C397	403 394 9305	ELECT 220U M 6.3V	C503	403 391 5102	ELECT 100U M 16V
C401	403 394 1309	ELECT 100U M 6.3V	C5031	403 323 8805	CERAMIC 2.2U Z 16V
C402	403 394 1309	ELECT 100U M 6.3V	C5032	403 314 5905	CERAMIC 0.47U K 16V
C403	403 355 9900	CERAMIC 2.2U K 10V	C5033	403 283 6309	CERAMIC 1U Z 10V
C404	403 215 2201	CERAMIC 0.01U K 50V	C5037	403 283 6309	CERAMIC 1U Z 10V
C406	403 215 2201	CERAMIC 0.01U K 50V	C5038	403 215 2201	CERAMIC 0.01U K 50V
C407	403 215 2201	CERAMIC 0.01U K 50V	C5039	403 215 2201	CERAMIC 0.01U K 50V
C408	403 215 2201	CERAMIC 0.01U K 50V	C504	403 298 9609	CERAMIC 0.1U K 16V
C409	403 215 2201	CERAMIC 0.01U K 50V	C5041	403 215 2201	CERAMIC 0.01U K 50V
C411	403 215 2201	CERAMIC 0.01U K 50V	C506	403 298 9609	CERAMIC 0.1U K 16V
C412	403 215 2201	CERAMIC 0.01U K 50V	C5061	403 391 5508	ELECT 10U M 16V
C413	403 215 2201	CERAMIC 0.01U K 50V	C5069	403 391 5508	ELECT 10U M 16V
C414	403 215 2201	CERAMIC 0.01U K 50V	C508	403 298 9609	CERAMIC 0.1U K 16V
C416	403 215 2201	CERAMIC 0.01U K 50V	C5081	403 398 4108	ELECT 47U M 16V
C417	403 215 2201	CERAMIC 0.01U K 50V	C5083	403 394 1309	ELECT 100U M 6.3V
C418	403 394 1309	ELECT 100U M 6.3V	C5084	403 164 0204	CERAMIC 0.1U Z 25V
C419	403 394 1309	ELECT 100U M 6.3V	C5086	403 394 1309	ELECT 100U M 6.3V
C421	403 215 2201	CERAMIC 0.01U K 50V	C5087	403 394 9305	ELECT 220U M 6.3V
C422	403 215 2201	CERAMIC 0.01U K 50V	C5088	403 394 9305	ELECT 220U M 6.3V
C423	403 215 2201	CERAMIC 0.01U K 50V	C509	403 298 9609	CERAMIC 0.1U K 16V
C424	403 215 2201	CERAMIC 0.01U K 50V	C511	403 298 9609	CERAMIC 0.1U K 16V
C426	403 215 2201	CERAMIC 0.01U K 50V	C512	403 298 9609	CERAMIC 0.1U K 16V
C427	403 215 2201	CERAMIC 0.01U K 50V	C513	403 298 9609	CERAMIC 0.1U K 16V
C428	403 215 2201	CERAMIC 0.01U K 50V	C514	403 298 9609	CERAMIC 0.1U K 16V
C429	403 215 2201	CERAMIC 0.01U K 50V	C518	403 298 9609	CERAMIC 0.1U K 16V
C431	403 215 2201	CERAMIC 0.01U K 50V	C519	403 298 9609	CERAMIC 0.1U K 16V
C432	403 215 2201	CERAMIC 0.01U K 50V	C521	403 298 9609	CERAMIC 0.1U K 16V
C441	403 215 2201	CERAMIC 0.01U K 50V	C522	403 298 9609	CERAMIC 0.1U K 16V
C442	403 215 2201	CERAMIC 0.01U K 50V	C523	403 157 2901	CERAMIC 47P J 50V
C443	403 215 2201	CERAMIC 0.01U K 50V	C524	403 113 3805	CERAMIC 1000P K 50V
C4801	403 164 0204	CERAMIC 0.1U Z 25V	C526	401 105 2003	MT-GLAZE 1.8K JA 1/16W
C4802	403 394 1309	ELECT 100U M 6.3V	C527	401 105 1006	MT-GLAZE 1.2K JA 1/16W
C4811	403 157 1904	CERAMIC 10P D 50V	C528	401 105 0504	MT-GLAZE 1K JA 1/16W
C4812	403 157 1904	CERAMIC 10P D 50V	C529	401 105 0504	MT-GLAZE 1K JA 1/16W
C4813	403 164 0204	CERAMIC 0.1U Z 25V	C5301	403 394 1309	ELECT 100U M 6.3V
C4814	403 164 0204	CERAMIC 0.1U Z 25V	C5302	403 283 6309	CERAMIC 1U Z 10V
C4816	403 164 0204	CERAMIC 0.1U Z 25V	C5303	403 355 9900	CERAMIC 2.2U K 10V
C4831	403 113 3805	CERAMIC 1000P K 50V	C5304	403 314 5905	CERAMIC 0.47U K 16V
C4834	403 164 0204	CERAMIC 0.1U Z 25V	C5306	403 316 5408	CERAMIC 1U K 10V
C4851	403 164 0204	CERAMIC 0.1U Z 25V	C5307	403 314 5905	CERAMIC 0.47U K 16V
C4852	403 164 0204	CERAMIC 0.1U Z 25V	C5308	403 355 9900	CERAMIC 2.2U K 10V
C4854	403 164 0204	CERAMIC 0.1U Z 25V	C5309	403 364 5801	CERAMIC 1U K 10V
C491	403 149 9208	CERAMIC 0.01U Z 50V	C531	403 392 1202	ELECT 47U M 6.3V
C492	403 164 0204	CERAMIC 0.1U Z 25V	C5311	403 157 3601	CERAMIC 100P J 50V
C493	403 394 1309	ELECT 100U M 6.3V	C5312	403 323 8805	CERAMIC 2.2U Z 16V
C5001	403 298 9609	CERAMIC 0.1U K 16V	C5313	403 379 6701	CERAMIC 10U K 16V
C5002	403 215 2201	CERAMIC 0.01U K 50V	C5314	403 283 6309	CERAMIC 1U Z 10V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C5316	403 207 0307	CERAMIC 1U Z 16V	C589	401 105 0504	MT-GLAZE 1K JA 1/16W
C5317	403 283 6309	CERAMIC 1U Z 10V	C6801	403 149 9208	CERAMIC 0.01U Z 50V
C5319	403 155 4204	CERAMIC 15P J 50V	C6802	403 149 9208	CERAMIC 0.01U Z 50V
C532	403 164 0204	CERAMIC 0.1U Z 25V	C6803	403 149 9208	CERAMIC 0.01U Z 50V
C533	403 391 5102	ELECT 100U M 16V	C6804	403 149 9208	CERAMIC 0.01U Z 50V
C5331	403 379 6701	CERAMIC 10U K 16V	C6806	403 149 9208	CERAMIC 0.01U Z 50V
C5332	403 215 2201	CERAMIC 0.01U K 50V	C6807	403 149 9208	CERAMIC 0.01U Z 50V
C5333	403 398 6508	ELECT 2.2U M 50V	C7861	403 314 6209	CERAMIC 2.2U K 16V
C5334	403 391 5102	ELECT 100U M 16V	C7863	403 381 5303	ELECT 100U M 16V
C5336	403 298 9609	CERAMIC 0.1U K 16V	C7864	403 381 5303	ELECT 100U M 16V
C5337	403 323 8805	CERAMIC 2.2U Z 16V	C7867	403 164 0204	CERAMIC 0.1U Z 25V
C534	403 298 9609	CERAMIC 0.1U K 16V	C7868	403 155 2309	CERAMIC 4700P K 50V
C5341	403 164 0204	CERAMIC 0.1U Z 25V	C7911	403 314 6209	CERAMIC 2.2U K 16V
C5343	403 298 9609	CERAMIC 0.1U K 16V	C7913	403 381 5303	ELECT 100U M 16V
C536	403 298 9609	CERAMIC 0.1U K 16V	C7914	403 381 5303	ELECT 100U M 16V
C538	403 298 9609	CERAMIC 0.1U K 16V	C7917	403 164 0204	CERAMIC 0.1U Z 25V
C539	403 298 9609	CERAMIC 0.1U K 16V	C7918	403 155 2309	CERAMIC 4700P K 50V
C541	403 298 9609	CERAMIC 0.1U K 16V	C7961	403 164 0204	CERAMIC 0.1U Z 25V
C542	403 298 9609	CERAMIC 0.1U K 16V	C7962	403 164 0204	CERAMIC 0.1U Z 25V
C543	403 298 9609	CERAMIC 0.1U K 16V	C802	403 164 0204	CERAMIC 0.1U Z 25V
C544	403 298 9609	CERAMIC 0.1U K 16V	C8203	403 205 2808	CERAMIC 0.047U K 25V
C548	403 298 9609	CERAMIC 0.1U K 16V	C8204	403 157 2901	CERAMIC 47P J 50V
C549	403 298 9609	CERAMIC 0.1U K 16V	C8206	403 398 3804	ELECT 220U M 16V
C551	403 298 9609	CERAMIC 0.1U K 16V	C8213	403 205 2808	CERAMIC 0.047U K 25V
C552	403 298 9609	CERAMIC 0.1U K 16V	C8214	403 157 2901	CERAMIC 47P J 50V
C553	403 157 2901	CERAMIC 47P J 50V	C8216	403 398 3804	ELECT 220U M 16V
C554	403 113 3805	CERAMIC 1000P K 50V	C8223	403 205 2808	CERAMIC 0.047U K 25V
C556	401 105 2003	MT-GLAZE 1.8K JA 1/16W	C8224	403 157 2901	CERAMIC 47P J 50V
C557	401 105 1006	MT-GLAZE 1.2K JA 1/16W	C8226	403 398 3804	ELECT 220U M 16V
C558	401 105 0504	MT-GLAZE 1K JA 1/16W	C8251	403 379 6701	CERAMIC 10U K 16V
C559	401 105 0504	MT-GLAZE 1K JA 1/16W	C8252	403 164 0204	CERAMIC 0.1U Z 25V
C5601	403 394 9305	ELECT 220U M 6.3V	C8253	403 164 0204	CERAMIC 0.1U Z 25V
C5602	403 164 0204	CERAMIC 0.1U Z 25V	C8254	403 164 0204	CERAMIC 0.1U Z 25V
C5603	403 394 9305	ELECT 220U M 6.3V	C8256	403 283 2905	CERAMIC 0.082U K 16V
C5604	403 164 0204	CERAMIC 0.1U Z 25V	C8257	403 215 2102	CERAMIC 8200P K 50V
C5606	403 391 5102	ELECT 100U M 16V	C8259	403 164 0204	CERAMIC 0.1U Z 25V
C5607	403 391 5102	ELECT 100U M 16V	C8261	403 164 0204	CERAMIC 0.1U Z 25V
C5608	403 394 9305	ELECT 220U M 6.3V	C8262	403 379 6701	CERAMIC 10U K 16V
C5609	403 391 5102	ELECT 100U M 16V	C8263	403 164 0204	CERAMIC 0.1U Z 25V
C561	403 392 1202	ELECT 47U M 6.3V	C8264	403 164 0204	CERAMIC 0.1U Z 25V
C5611	403 398 1800	ELECT 220U M 6.3V	C8266	403 164 0204	CERAMIC 0.1U Z 25V
C562	403 164 0204	CERAMIC 0.1U Z 25V	C8267	403 164 0204	CERAMIC 0.1U Z 25V
C563	403 391 5102	ELECT 100U M 16V	C8268	403 164 0204	CERAMIC 0.1U Z 25V
C5632	403 392 1202	ELECT 47U M 6.3V	C8269	403 164 0204	CERAMIC 0.1U Z 25V
C5633	403 347 5507	POS-SOLID 470U M 4V	C8271	403 164 0204	CERAMIC 0.1U Z 25V
C5634	403 394 1309	ELECT 100U M 6.3V	C8272	403 164 0204	CERAMIC 0.1U Z 25V
C5635	403 164 0204	CERAMIC 0.1U Z 25V	C8273	403 164 0204	CERAMIC 0.1U Z 25V
C564	403 298 9609	CERAMIC 0.1U K 16V	C8274	403 164 0204	CERAMIC 0.1U Z 25V
C5641	403 374 8403	OS-SOLID 39U M 16V	C8811	403 155 1609	CERAMIC 33P J 50V
C5642	403 164 0204	CERAMIC 0.1U Z 25V	C8812	403 155 1609	CERAMIC 33P J 50V
C5643	403 391 5102	ELECT 100U M 16V	C8813	403 164 0204	CERAMIC 0.1U Z 25V
C566	403 298 9609	CERAMIC 0.1U K 16V	C8821	403 155 1609	CERAMIC 33P J 50V
C568	403 298 9609	CERAMIC 0.1U K 16V	C8822	403 155 1609	CERAMIC 33P J 50V
C569	403 298 9609	CERAMIC 0.1U K 16V	C8823	403 164 0204	CERAMIC 0.1U Z 25V
C571	403 298 9609	CERAMIC 0.1U K 16V	C8831	403 155 1609	CERAMIC 33P J 50V
C572	403 298 9609	CERAMIC 0.1U K 16V	C8832	403 155 1609	CERAMIC 33P J 50V
C573	403 298 9609	CERAMIC 0.1U K 16V	C8833	403 164 0204	CERAMIC 0.1U Z 25V
C574	403 298 9609	CERAMIC 0.1U K 16V	C9401	403 379 6701	CERAMIC 10U K 16V
C578	403 298 9609	CERAMIC 0.1U K 16V	C9402	403 164 0204	CERAMIC 0.1U Z 25V
C579	403 298 9609	CERAMIC 0.1U K 16V	C9403	403 164 0204	CERAMIC 0.1U Z 25V
C581	403 298 9609	CERAMIC 0.1U K 16V	C9404	403 164 0204	CERAMIC 0.1U Z 25V
C582	403 298 9609	CERAMIC 0.1U K 16V	C9406	403 164 0204	CERAMIC 0.1U Z 25V
C583	403 157 2901	CERAMIC 47P J 50V	C9407	403 164 0204	CERAMIC 0.1U Z 25V
C584	403 113 3805	CERAMIC 1000P K 50V	C9408	403 164 0204	CERAMIC 0.1U Z 25V
C586	401 105 2003	MT-GLAZE 1.8K JA 1/16W	C9409	403 164 0204	CERAMIC 0.1U Z 25V
C587	401 105 1006	MT-GLAZE 1.2K JA 1/16W	C9411	403 164 0204	CERAMIC 0.1U Z 25V
C588	401 105 0504	MT-GLAZE 1K JA 1/16W	C9412	403 164 0204	CERAMIC 0.1U Z 25V

Key No.	Part No.	Description
C9413	403 164 0204	CERAMIC 0.1U Z 25V
C9414	403 164 0204	CERAMIC 0.1U Z 25V
C9801	403 310 8306	CERAMIC 10U Z 10V
C9802	403 310 8306	CERAMIC 10U Z 10V
C9803	403 310 8306	CERAMIC 10U Z 10V
C9804	403 310 8306	CERAMIC 10U Z 10V
C9806	403 283 6309	CERAMIC 1U Z 10V
C9821	403 149 9208	CERAMIC 0.01U Z 50V
RESISTOR		
R101	401 105 0306	MT-GLAZE 10 JA 1/16W
R103	401 105 0504	MT-GLAZE 1K JA 1/16W
R104	401 105 5202	MT-GLAZE 470 JA 1/16W
R106	401 105 5202	MT-GLAZE 470 JA 1/16W
R107	401 105 0306	MT-GLAZE 10 JA 1/16W
R109	401 105 0306	MT-GLAZE 10 JA 1/16W
R111	401 105 7305	MT-GLAZE 820 JA 1/16W
R112	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R113	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R114	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R116	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R117	401 105 0306	MT-GLAZE 10 JA 1/16W
R119	401 105 0306	MT-GLAZE 10 JA 1/16W
R122	401 105 0306	MT-GLAZE 10 JA 1/16W
R124	401 105 0405	MT-GLAZE 100 JA 1/16W
R126	401 105 0405	MT-GLAZE 100 JA 1/16W
R127	401 105 0405	MT-GLAZE 100 JA 1/16W
R128	401 105 0603	MT-GLAZE 10K JA 1/16W
R132	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R133	401 105 5103	MT-GLAZE 47 JA 1/16W
R134	401 105 5103	MT-GLAZE 47 JA 1/16W
R137	401 105 5103	MT-GLAZE 47 JA 1/16W
R138	401 105 1600	MT-GLAZE 15K JA 1/16W
R1381	401 105 0405	MT-GLAZE 100 JA 1/16W
R1382	401 105 0603	MT-GLAZE 10K JA 1/16W
R1383	401 105 0603	MT-GLAZE 10K JA 1/16W
R1387	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1388	401 105 0405	MT-GLAZE 100 JA 1/16W
R1389	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1391	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1401	401 105 0306	MT-GLAZE 10 JA 1/16W
R1402	401 105 0306	MT-GLAZE 10 JA 1/16W
R1403	401 105 0306	MT-GLAZE 10 JA 1/16W
R1404	401 105 0306	MT-GLAZE 10 JA 1/16W
R1406	401 105 0306	MT-GLAZE 10 JA 1/16W
R1407	401 105 0306	MT-GLAZE 10 JA 1/16W
R1408	401 105 0306	MT-GLAZE 10 JA 1/16W
R1409	401 105 0306	MT-GLAZE 10 JA 1/16W
R1411	401 105 0306	MT-GLAZE 10 JA 1/16W
R1412	401 105 0306	MT-GLAZE 10 JA 1/16W
R1413	401 105 0306	MT-GLAZE 10 JA 1/16W
R1414	401 105 0306	MT-GLAZE 10 JA 1/16W
R1416	401 105 0306	MT-GLAZE 10 JA 1/16W
R1417	401 105 0306	MT-GLAZE 10 JA 1/16W
R1418	401 105 0306	MT-GLAZE 10 JA 1/16W
R1419	401 105 3901	MT-GLAZE 33 JA 1/16W
R142	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1421	401 105 0306	MT-GLAZE 10 JA 1/16W
R1422	401 105 2607	MT-GLAZE 22 JA 1/16W
R1423	401 105 2607	MT-GLAZE 22 JA 1/16W
R1424	401 105 0306	MT-GLAZE 10 JA 1/16W
R1426	401 105 0306	MT-GLAZE 10 JA 1/16W
R1427	401 105 0306	MT-GLAZE 10 JA 1/16W
R1428	401 105 0306	MT-GLAZE 10 JA 1/16W
R1429	401 105 0306	MT-GLAZE 10 JA 1/16W
R1431	401 105 0306	MT-GLAZE 10 JA 1/16W
R1432	401 105 0306	MT-GLAZE 10 JA 1/16W
R1433	401 105 0306	MT-GLAZE 10 JA 1/16W
R1434	401 105 0306	MT-GLAZE 10 JA 1/16W
R1436	401 105 0306	MT-GLAZE 10 JA 1/16W
R1437	401 105 0306	MT-GLAZE 10 JA 1/16W
R1438	401 105 3901	MT-GLAZE 33 JA 1/16W
R1439	401 105 0306	MT-GLAZE 10 JA 1/16W
R1441	401 105 0306	MT-GLAZE 10 JA 1/16W
R1442	401 105 0306	MT-GLAZE 10 JA 1/16W
R1443	401 105 2607	MT-GLAZE 22 JA 1/16W
R1444	401 105 2607	MT-GLAZE 22 JA 1/16W
R1446	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1447	401 105 0306	MT-GLAZE 10 JA 1/16W
R1448	401 105 0306	MT-GLAZE 10 JA 1/16W
R1449	401 105 0306	MT-GLAZE 10 JA 1/16W
R1451	401 105 0306	MT-GLAZE 10 JA 1/16W
R1452	401 105 0306	MT-GLAZE 10 JA 1/16W
R1453	401 105 0306	MT-GLAZE 10 JA 1/16W
R1454	401 105 0306	MT-GLAZE 10 JA 1/16W
R1456	401 105 0306	MT-GLAZE 10 JA 1/16W
R1457	401 105 0306	MT-GLAZE 10 JA 1/16W
R1458	401 105 0306	MT-GLAZE 10 JA 1/16W
R1459	401 105 0306	MT-GLAZE 10 JA 1/16W
R1461	401 105 0306	MT-GLAZE 10 JA 1/16W
R1462	401 105 0306	MT-GLAZE 10 JA 1/16W
R1463	401 105 3901	MT-GLAZE 33 JA 1/16W
R1464	401 105 0306	MT-GLAZE 10 JA 1/16W
R1466	401 105 2607	MT-GLAZE 22 JA 1/16W
R1467	401 105 2607	MT-GLAZE 22 JA 1/16W
R1501	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1502	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1503	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1504	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1506	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1507	401 105 0306	MT-GLAZE 10 JA 1/16W
R1508	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1509	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1511	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1512	401 105 0504	MT-GLAZE 1K JA 1/16W
R1513	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1514	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1532	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1533	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1534	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1536	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1537	401 105 0306	MT-GLAZE 10 JA 1/16W
R1538	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1539	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1541	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1542	401 105 0504	MT-GLAZE 1K JA 1/16W
R1543	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1544	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1561	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1562	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1563	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1564	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1566	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1567	401 105 0306	MT-GLAZE 10 JA 1/16W
R1568	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1569	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1571	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1572	401 105 0504	MT-GLAZE 1K JA 1/16W
R1573	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1574	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R161	401 190 1707	MT-GLAZE 0.000 ZA 1W
R1811	401 105 0603	MT-GLAZE 10K JA 1/16W
R1812	401 105 0603	MT-GLAZE 10K JA 1/16W
R1813	401 105 0603	MT-GLAZE 10K JA 1/16W

Key No.	Part No.	Description	Key No.	Part No.	Description
R1816	401 105 0603	MT-GLAZE 10K JA 1/16W	R327	401 105 0603	MT-GLAZE 10K JA 1/16W
R1822	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R329	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1823	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R331	401 105 0306	MT-GLAZE 10 JA 1/16W
R1824	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R332	401 105 0306	MT-GLAZE 10 JA 1/16W
R1826	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R333	401 105 0306	MT-GLAZE 10 JA 1/16W
R1827	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R334	401 105 0306	MT-GLAZE 10 JA 1/16W
R1828	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R341	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1841	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R342	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1842	401 105 0306	MT-GLAZE 10 JA 1/16W	R3501	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1843	401 105 0306	MT-GLAZE 10 JA 1/16W	R3502	401 113 6604	MT-GLAZE 7.5K JA 1/16W
R1844	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3503	401 113 6604	MT-GLAZE 7.5K JA 1/16W
R1846	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3504	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1847	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R3506	401 105 0603	MT-GLAZE 10K JA 1/16W
R1848	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R3507	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1849	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3508	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1851	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R351	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1852	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R353	401 105 1600	MT-GLAZE 15K JA 1/16W
R1853	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R3531	401 105 0405	MT-GLAZE 100 JA 1/16W
R1861	401 105 5905	MT-GLAZE 560 JA 1/16W	R3532	401 105 0405	MT-GLAZE 100 JA 1/16W
R1863	401 105 0405	MT-GLAZE 100 JA 1/16W	R3534	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1864	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3536	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1866	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R354	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1867	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3541	401 105 0603	MT-GLAZE 10K JA 1/16W
R1871	401 105 0603	MT-GLAZE 10K JA 1/16W	R3542	401 105 0603	MT-GLAZE 10K JA 1/16W
R1872	401 105 0306	MT-GLAZE 10 JA 1/16W	R3543	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1873	401 105 1105	MT-GLAZE 12K JA 1/16W	R358	401 105 0504	MT-GLAZE 1K JA 1/16W
R1874	401 105 2508	MT-GLAZE 20K JA 1/16W	R3581	401 105 0504	MT-GLAZE 1K JA 1/16W
R1876	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3582	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1877	401 105 0603	MT-GLAZE 10K JA 1/16W	R3583	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2501	401 105 1501	MT-GLAZE 1.5K JA 1/16W	R3584	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2502	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R359	401 105 5905	MT-GLAZE 560 JA 1/16W
R2503	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R3601	401 105 0504	MT-GLAZE 1K JA 1/16W
R2504	401 105 0603	MT-GLAZE 10K JA 1/16W	R3602	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R2521	401 105 5400	MT-GLAZE 47K JA 1/16W	R3603	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2522	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R361	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2523	401 105 0702	MT-GLAZE 100K JA 1/16W	R362	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2531	401 105 5400	MT-GLAZE 47K JA 1/16W	R3621	401 105 0603	MT-GLAZE 10K JA 1/16W
R2532	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3622	401 105 0603	MT-GLAZE 10K JA 1/16W
R2533	401 105 0702	MT-GLAZE 100K JA 1/16W	R3623	401 105 0603	MT-GLAZE 10K JA 1/16W
R2541	401 105 5400	MT-GLAZE 47K JA 1/16W	R3624	401 105 0603	MT-GLAZE 10K JA 1/16W
R2542	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3626	401 105 0603	MT-GLAZE 10K JA 1/16W
R2543	401 105 0702	MT-GLAZE 100K JA 1/16W	R3627	401 105 0603	MT-GLAZE 10K JA 1/16W
R2851	401 105 0306	MT-GLAZE 10 JA 1/16W	R364	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2852	401 105 0306	MT-GLAZE 10 JA 1/16W	R367	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2853	401 105 0306	MT-GLAZE 10 JA 1/16W	R368	401 105 0504	MT-GLAZE 1K JA 1/16W
R2854	401 105 0306	MT-GLAZE 10 JA 1/16W	R371	401 105 4700	MT-GLAZE 39K JA 1/16W
R2856	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R372	401 113 8301	MT-GLAZE 62K JA 1/16W
R2858	401 105 0504	MT-GLAZE 1K JA 1/16W	R373	401 105 4700	MT-GLAZE 39K JA 1/16W
R2861	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R374	401 113 8301	MT-GLAZE 62K JA 1/16W
R2863	401 105 0504	MT-GLAZE 1K JA 1/16W	R376	401 113 6703	MT-GLAZE 9.1K JA 1/16W
R2864	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R377	401 113 6703	MT-GLAZE 9.1K JA 1/16W
R2867	401 105 4502	MT-GLAZE 390 JA 1/16W	R378	401 113 6703	MT-GLAZE 9.1K JA 1/16W
R2869	401 105 4502	MT-GLAZE 390 JA 1/16W	R379	401 113 6703	MT-GLAZE 9.1K JA 1/16W
R2871	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R381	401 105 2508	MT-GLAZE 20K JA 1/16W
R2873	401 105 0504	MT-GLAZE 1K JA 1/16W	R382	401 113 4204	MT-GLAZE 51 JA 1/16W
R2874	401 105 0504	MT-GLAZE 1K JA 1/16W	R383	401 105 4007	MT-GLAZE 330 JA 1/16W
R303	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R384	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R304	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R386	401 113 6208	MT-GLAZE 3.6K JA 1/16W
R306	401 105 0306	MT-GLAZE 10 JA 1/16W	R387	401 105 2102	MT-GLAZE 18K JA 1/16W
R308	401 105 0306	MT-GLAZE 10 JA 1/16W	R388	401 105 4007	MT-GLAZE 330 JA 1/16W
R312	401 105 0603	MT-GLAZE 10K JA 1/16W	R389	401 113 4204	MT-GLAZE 51 JA 1/16W
R314	401 105 0603	MT-GLAZE 10K JA 1/16W	R391	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R316	401 105 0405	MT-GLAZE 100 JA 1/16W	R392	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R317	401 105 6506	MT-GLAZE 680 JA 1/16W	R393	401 105 3802	MT-GLAZE 30K JA 1/16W
R318	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R394	401 105 2102	MT-GLAZE 18K JA 1/16W
R322	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R396	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R324	401 105 0603	MT-GLAZE 10K JA 1/16W	R397	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Key No.	Part No.	Description	Key No.	Part No.	Description
R401	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5032	401 105 5202	MT-GLAZE 470 JA 1/16W
R402	401 105 0504	MT-GLAZE 1K JA 1/16W	R5033	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R403	401 105 0405	MT-GLAZE 100 JA 1/16W	R5034	401 105 0504	MT-GLAZE 1K JA 1/16W
R404	401 105 0405	MT-GLAZE 100 JA 1/16W	R5036	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R406	401 105 0405	MT-GLAZE 100 JA 1/16W	R5037	401 105 0504	MT-GLAZE 1K JA 1/16W
R407	401 105 0405	MT-GLAZE 100 JA 1/16W	R5038	401 105 0603	MT-GLAZE 10K JA 1/16W
R408	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5039	401 105 2102	MT-GLAZE 18K JA 1/16W
R409	401 105 0405	MT-GLAZE 100 JA 1/16W	R504	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R411	401 105 0405	MT-GLAZE 100 JA 1/16W	R5041	401 105 0504	MT-GLAZE 1K JA 1/16W
R412	401 105 0405	MT-GLAZE 100 JA 1/16W	R5042	401 105 0504	MT-GLAZE 1K JA 1/16W
R413	401 105 0405	MT-GLAZE 100 JA 1/16W	R5043	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
R414	401 105 0405	MT-GLAZE 100 JA 1/16W	R5044	401 105 0603	MT-GLAZE 10K JA 1/16W
R416	401 105 0405	MT-GLAZE 100 JA 1/16W	R5046	401 105 0603	MT-GLAZE 10K JA 1/16W
R417	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5047	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R418	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5048	401 105 0504	MT-GLAZE 1K JA 1/16W
R419	401 105 0405	MT-GLAZE 100 JA 1/16W	R5051	401 105 0603	MT-GLAZE 10K JA 1/16W
R421	401 105 0405	MT-GLAZE 100 JA 1/16W	R5052	401 235 7008	MT-GLAZE 39K FA 1/16W
R422	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5053	401 235 7008	MT-GLAZE 39K FA 1/16W
R424	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5056	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R426	401 105 2508	MT-GLAZE 20K JA 1/16W	R5058	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R427	401 113 4402	MT-GLAZE 75 JA 1/16W	R5061	401 105 0504	MT-GLAZE 1K JA 1/16W
R428	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5062	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R429	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5063	401 105 0504	MT-GLAZE 1K JA 1/16W
R432	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5064	401 105 0504	MT-GLAZE 1K JA 1/16W
R433	401 276 4707	MT-GLAZE 0.000 ZA 1/3W	R5066	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R4802	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5067	401 105 0504	MT-GLAZE 1K JA 1/16W
R4804	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5068	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R4807	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5069	401 105 0504	MT-GLAZE 1K JA 1/16W
R4809	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5071	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R4812	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R508	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4814	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5081	401 105 0603	MT-GLAZE 10K JA 1/16W
R4816	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5082	401 105 0504	MT-GLAZE 1K JA 1/16W
R4817	401 105 8005	MT-GLAZE 1M JA 1/16W	R5083	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R4818	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R509	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4826	401 105 0405	MT-GLAZE 100 JA 1/16W	R513	401 105 0405	MT-GLAZE 100 JA 1/16W
R4827	401 105 0405	MT-GLAZE 100 JA 1/16W	R517	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4831	401 105 0405	MT-GLAZE 100 JA 1/16W	R518	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4832	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R519	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4833	401 113 4204	MT-GLAZE 51 JA 1/16W	R5301	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4834	401 113 4204	MT-GLAZE 51 JA 1/16W	R5303	401 105 0405	MT-GLAZE 100 JA 1/16W
R4836	401 102 7506	MT-GLAZE 22 JA 1W	R5304	401 105 8005	MT-GLAZE 1M JA 1/16W
R4837	401 105 2607	MT-GLAZE 22 JA 1/16W	R5306	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R4841	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5307	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4842	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R5308	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4843	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R531	401 105 0405	MT-GLAZE 100 JA 1/16W
R4844	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5312	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4846	401 105 0603	MT-GLAZE 10K JA 1/16W	R5313	401 105 0603	MT-GLAZE 10K JA 1/16W
R4851	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5314	401 105 6100	MT-GLAZE 560K JA 1/16W
R4852	401 105 0603	MT-GLAZE 10K JA 1/16W	R5316	401 105 0504	MT-GLAZE 1K JA 1/16W
R4853	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5317	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4854	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5319	401 105 0405	MT-GLAZE 100 JA 1/16W
R4856	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R532	401 105 0405	MT-GLAZE 100 JA 1/16W
R5001	401 276 4301	MT-GLAZE 4.7 JA 1/3W	R5321	401 105 0504	MT-GLAZE 1K JA 1/16W
R5002	401 105 1402	MT-GLAZE 150 JA 1/16W	R5322	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5003	401 105 1402	MT-GLAZE 150 JA 1/16W	R5323	401 105 0504	MT-GLAZE 1K JA 1/16W
R5004	401 105 0405	MT-GLAZE 100 JA 1/16W	R533	401 105 0405	MT-GLAZE 100 JA 1/16W
R5006	401 105 0405	MT-GLAZE 100 JA 1/16W	R5331	401 035 4306	MT-GLAZE 10 JA 1/8W
R5007	401 105 0405	MT-GLAZE 100 JA 1/16W	R5332	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R5008	401 105 0405	MT-GLAZE 100 JA 1/16W	R5333	401 113 5201	MT-GLAZE 360 JA 1/16W
R501	401 105 0405	MT-GLAZE 100 JA 1/16W	R5334	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5011	401 105 5400	MT-GLAZE 47K JA 1/16W	R5339	401 105 0603	MT-GLAZE 10K JA 1/16W
R5012	401 105 5400	MT-GLAZE 47K JA 1/16W	R534	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5013	401 105 5400	MT-GLAZE 47K JA 1/16W	R5341	401 105 0405	MT-GLAZE 100 JA 1/16W
R5014	401 105 5400	MT-GLAZE 47K JA 1/16W	R5342	401 105 0405	MT-GLAZE 100 JA 1/16W
R502	401 105 0405	MT-GLAZE 100 JA 1/16W	R5343	401 105 0405	MT-GLAZE 100 JA 1/16W
R503	401 105 0405	MT-GLAZE 100 JA 1/16W	R5344	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R5031	401 105 5202	MT-GLAZE 470 JA 1/16W	R5346	401 105 0405	MT-GLAZE 100 JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R5347	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R7874	401 219 1107	MT-GLAZE 1.8K FA 1/16W
R5348	401 105 5202	MT-GLAZE 470 JA 1/16W	R7877	401 105 2904	MT-GLAZE 22K JA 1/16W
R5349	401 105 6605	MT-GLAZE 6.8K JA 1/16W	R7878	401 105 0603	MT-GLAZE 10K JA 1/16W
R5351	401 105 5202	MT-GLAZE 470 JA 1/16W	R7879	401 105 0504	MT-GLAZE 1K JA 1/16W
R5352	401 105 6605	MT-GLAZE 6.8K JA 1/16W	R7881	401 105 0504	MT-GLAZE 1K JA 1/16W
R5353	401 105 0504	MT-GLAZE 1K JA 1/16W	R7882	401 105 0603	MT-GLAZE 10K JA 1/16W
R538	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7883	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R539	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7911	401 105 0603	MT-GLAZE 10K JA 1/16W
R543	401 105 0405	MT-GLAZE 100 JA 1/16W	R7912	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R547	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7913	401 105 8005	MT-GLAZE 1M JA 1/16W
R548	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R7914	401 105 4007	MT-GLAZE 330 JA 1/16W
R549	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R7916	401 230 4705	MT-GLAZE 680 JA 1W
R5601	401 190 1707	MT-GLAZE 0.000 ZA 1W	R7917	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
R561	401 105 0405	MT-GLAZE 100 JA 1/16W	R7918	401 113 8400	MT-GLAZE 75K JA 1/16W
R562	401 105 0405	MT-GLAZE 100 JA 1/16W	R7919	401 105 0702	MT-GLAZE 100K JA 1/16W
R5621	401 225 4604	MT-GLAZE 1.2 JA 1W	R7921	401 217 3806	MT-GLAZE 27K FA 1/16W
R5622	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7922	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5623	401 218 8602	MT-GLAZE 5.6 JA 1W	R7923	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R563	401 105 0405	MT-GLAZE 100 JA 1/16W	R7924	401 219 1107	MT-GLAZE 1.8K FA 1/16W
R5631	401 105 0405	MT-GLAZE 100 JA 1/16W	R7927	401 105 2904	MT-GLAZE 22K JA 1/16W
R5632	401 225 5601	MT-GLAZE 2.2 JA 1W	R7928	401 105 0603	MT-GLAZE 10K JA 1/16W
R5633	401 225 5601	MT-GLAZE 2.2 JA 1W	R7929	401 105 0504	MT-GLAZE 1K JA 1/16W
R564	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7931	401 105 0504	MT-GLAZE 1K JA 1/16W
R5642	401 113 8905	MT-GLAZE 200K JA 1/16W	R7932	401 105 0603	MT-GLAZE 10K JA 1/16W
R5643	401 113 7106	MT-GLAZE 24K JA 1/16W	R7933	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R568	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7961	401 105 0405	MT-GLAZE 100 JA 1/16W
R569	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7962	401 105 0405	MT-GLAZE 100 JA 1/16W
R573	401 105 0405	MT-GLAZE 100 JA 1/16W	R7963	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R577	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7964	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R578	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R7966	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R579	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R801	401 105 0603	MT-GLAZE 10K JA 1/16W
R6801	401 105 5103	MT-GLAZE 47 JA 1/16W	R802	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6802	401 105 5103	MT-GLAZE 47 JA 1/16W	R803	401 105 0603	MT-GLAZE 10K JA 1/16W
R6803	401 105 5103	MT-GLAZE 47 JA 1/16W	R806	401 105 0603	MT-GLAZE 10K JA 1/16W
R6804	401 105 0306	MT-GLAZE 10 JA 1/16W	R807	401 105 0603	MT-GLAZE 10K JA 1/16W
R6806	401 105 0306	MT-GLAZE 10 JA 1/16W	R8201	401 105 6407	MT-GLAZE 68 JA 1/16W
R6807	401 105 0306	MT-GLAZE 10 JA 1/16W	R8202	401 105 7206	MT-GLAZE 82 JA 1/16W
R6808	401 105 0306	MT-GLAZE 10 JA 1/16W	R8203	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6809	401 105 0306	MT-GLAZE 10 JA 1/16W	R8204	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6811	401 105 0306	MT-GLAZE 10 JA 1/16W	R8206	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6851	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R821	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6852	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8211	401 105 6407	MT-GLAZE 68 JA 1/16W
R6853	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8212	401 105 7206	MT-GLAZE 82 JA 1/16W
R6854	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8213	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6856	401 105 0306	MT-GLAZE 10 JA 1/16W	R8214	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6857	401 105 0306	MT-GLAZE 10 JA 1/16W	R8216	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6858	401 105 0306	MT-GLAZE 10 JA 1/16W	R8221	401 105 6407	MT-GLAZE 68 JA 1/16W
R6859	401 105 0306	MT-GLAZE 10 JA 1/16W	R8222	401 105 7206	MT-GLAZE 82 JA 1/16W
R6861	401 105 0306	MT-GLAZE 10 JA 1/16W	R8223	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6862	401 105 0306	MT-GLAZE 10 JA 1/16W	R8224	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6863	401 105 0306	MT-GLAZE 10 JA 1/16W	R8226	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6864	401 105 0306	MT-GLAZE 10 JA 1/16W	R823	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7801	401 105 0603	MT-GLAZE 10K JA 1/16W	R8251	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R7802	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R8254	401 105 0306	MT-GLAZE 10 JA 1/16W
R7803	401 105 0603	MT-GLAZE 10K JA 1/16W	R8256	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R7809	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8257	401 105 0306	MT-GLAZE 10 JA 1/16W
R7861	401 105 0603	MT-GLAZE 10K JA 1/16W	R8258	401 105 0306	MT-GLAZE 10 JA 1/16W
R7862	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R8259	401 105 0306	MT-GLAZE 10 JA 1/16W
R7863	401 105 8005	MT-GLAZE 1M JA 1/16W	R8261	401 105 0603	MT-GLAZE 10K JA 1/16W
R7864	401 105 4007	MT-GLAZE 330 JA 1/16W	R8262	401 105 0405	MT-GLAZE 100 JA 1/16W
R7866	401 230 4705	MT-GLAZE 680 JA 1W	R8263	401 105 0405	MT-GLAZE 100 JA 1/16W
R7867	401 276 4707	MT-GLAZE 0.000 ZA 1/3W	R843	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7868	401 113 8400	MT-GLAZE 75K JA 1/16W	R844	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7869	401 105 0702	MT-GLAZE 100K JA 1/16W	R853	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7871	401 217 3806	MT-GLAZE 27K FA 1/16W	R854	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7872	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R863	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7873	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R864	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Key No.	Part No.	Description
R871	401 105 0603	MT-GLAZE 10K JA 1/16W
R872	401 105 0603	MT-GLAZE 10K JA 1/16W
R873	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R874	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8811	401 105 0306	MT-GLAZE 10 JA 1/16W
R8812	401 105 0306	MT-GLAZE 10 JA 1/16W
R8813	401 105 0603	MT-GLAZE 10K JA 1/16W
R8821	401 105 0306	MT-GLAZE 10 JA 1/16W
R8822	401 105 0306	MT-GLAZE 10 JA 1/16W
R8823	401 105 0603	MT-GLAZE 10K JA 1/16W
R8824	401 105 0603	MT-GLAZE 10K JA 1/16W
R8831	401 105 0306	MT-GLAZE 10 JA 1/16W
R8832	401 105 0306	MT-GLAZE 10 JA 1/16W
R8833	401 105 0603	MT-GLAZE 10K JA 1/16W
R9001	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9003	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9401	401 105 0405	MT-GLAZE 100 JA 1/16W
R9402	401 105 0405	MT-GLAZE 100 JA 1/16W
R9403	401 105 0405	MT-GLAZE 100 JA 1/16W
R9404	401 105 0405	MT-GLAZE 100 JA 1/16W
R9406	401 105 0405	MT-GLAZE 100 JA 1/16W
R9407	401 105 0603	MT-GLAZE 10K JA 1/16W
R9411	401 105 0603	MT-GLAZE 10K JA 1/16W
R9412	401 105 0306	MT-GLAZE 10 JA 1/16W
R9413	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9414	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9416	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9417	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9418	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9419	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9421	401 105 0603	MT-GLAZE 10K JA 1/16W
R9422	401 105 0603	MT-GLAZE 10K JA 1/16W
R9426	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9802	401 105 0405	MT-GLAZE 100 JA 1/16W
R9803	401 105 0405	MT-GLAZE 100 JA 1/16W
R9804	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R9806	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9807	401 105 0405	MT-GLAZE 100 JA 1/16W
R9808	401 105 0603	MT-GLAZE 10K JA 1/16W
R9809	401 105 0405	MT-GLAZE 100 JA 1/16W
R9821	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9822	401 105 0306	MT-GLAZE 10 JA 1/16W
R9823	401 105 0306	MT-GLAZE 10 JA 1/16W
R9824	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9826	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9827	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9828	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9861	401 105 0306	MT-GLAZE 10 JA 1/16W
R9863	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9866	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9867	401 105 0306	MT-GLAZE 10 JA 1/16W
R9868	401 105 0504	MT-GLAZE 1K JA 1/16W
R9873	401 105 0306	MT-GLAZE 10 JA 1/16W
R9876	401 105 0306	MT-GLAZE 10 JA 1/16W
R9877	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9879	401 105 0603	MT-GLAZE 10K JA 1/16W
RB101	645 036 0985	R-NETWORK 47X4 1/32W
	645 037 0830	R-NETWORK 47X4 1/32W
RB102	645 036 0985	R-NETWORK 47X4 1/32W
	645 037 0830	R-NETWORK 47X4 1/32W
RB103	645 036 0985	R-NETWORK 47X4 1/32W
	645 037 0830	R-NETWORK 47X4 1/32W
RB104	645 036 0985	R-NETWORK 47X4 1/32W
	645 037 0830	R-NETWORK 47X4 1/32W
RB1401	645 037 0663	R-NETWORK 22X4 0.063W
RB1402	645 037 0663	R-NETWORK 22X4 0.063W
RB1403	645 037 0663	R-NETWORK 22X4 0.063W
RB1404	645 037 0663	R-NETWORK 22X4 0.063W
RB1406	645 037 0663	R-NETWORK 22X4 0.063W
RB1407	645 037 0663	R-NETWORK 22X4 0.063W
RB1501	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB1502	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB1531	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB1532	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB1561	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB1562	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB401	645 021 0358	R-NETWORK 100X4 0.063W
	645 031 3325	R-NETWORK 100X4 1/16W
RB402	645 021 0358	R-NETWORK 100X4 0.063W
	645 031 3325	R-NETWORK 100X4 1/16W
RB403	645 021 0358	R-NETWORK 100X4 0.063W
	645 031 3325	R-NETWORK 100X4 1/16W
RB404	645 021 0358	R-NETWORK 100X4 0.063W
	645 031 3325	R-NETWORK 100X4 1/16W
RB406	645 021 0358	R-NETWORK 100X4 0.063W
	645 031 3325	R-NETWORK 100X4 1/16W
RB407	645 021 0358	R-NETWORK 100X4 0.063W
	645 031 3325	R-NETWORK 100X4 1/16W
RB408	645 037 0656	R-NETWORK 0X4 0.063W
RB409	645 037 0656	R-NETWORK 0X4 0.063W
RB8251	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8252	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8253	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8254	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8256	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8257	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB9401	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB9402	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB9403	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB9404	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB9406	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB9407	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
COIL		
L101	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L102	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L103	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L139	645 026 1022	INDUCTOR,4.7U M
L2501	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L3531	645 026 1008	INDUCTOR,3.3U M
L3581	645 026 1008	INDUCTOR,3.3U M
L371	645 033 7949	INDUCTOR,33U M
L372	645 062 2854	INDUCTOR,33U M
L401	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L4841	645 026 1008	INDUCTOR,3.3U M
L501	645 041 2189	INDUCTOR,3.3U J
L502	401 035 4108	MT-GLAZE 0.000 ZA 1/8W

Key No.	Part No.	Description
L5031	645 026 1008	INDUCTOR,3.3U M
L5302	645 026 1022	INDUCTOR,4.7U M
L531	645 041 2189	INDUCTOR,3.3U J
L5311	645 026 1022	INDUCTOR,4.7U M
L532	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L561	645 041 2189	INDUCTOR,3.3U J
L5611	645 033 7949	INDUCTOR,33U M
L562	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L7861	645 038 4561	INDUCTOR,100U M
L7911	645 038 4578	INDUCTOR,33U M
L7961	645 026 1008	INDUCTOR,3.3U M
L8251	645 020 1776	INDUCTOR,3.3U M
DIODE		
D2851	407 209 7500	LED SML-210YT T86 L
D2852	407 203 7803	LED SML-210LT T86 M
D2853	407 199 1809	LED SML-020MLT-T86
D2854	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D2856	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D2857	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D2858	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D2861	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D2862	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D301	407 149 0807	DIODE 1SS355-TE-17
D3601	407 149 0807	DIODE 1SS355-TE-17
D3602	407 149 0807	DIODE 1SS355-TE-17
D3603	407 149 0807	DIODE 1SS355-TE-17
D3604	407 149 0807	DIODE 1SS355-TE-17
D3606	407 149 0807	DIODE 1SS355-TE-17
D3607	407 149 0807	DIODE 1SS355-TE-17
D3608	407 149 0807	DIODE 1SS355-TE-17
D3609	407 149 0807	DIODE 1SS355-TE-17
D3611	407 149 0807	DIODE 1SS355-TE-17
D3612	407 149 0807	DIODE 1SS355-TE-17
D3614	407 149 0807	DIODE 1SS355-TE-17
D3616	407 149 0807	DIODE 1SS355-TE-17
D3617	407 149 0807	DIODE 1SS355-TE-17
D3621	407 149 0807	DIODE 1SS355-TE-17
D3622	407 149 0807	DIODE 1SS355-TE-17
D3623	407 149 0807	DIODE 1SS355-TE-17
D3624	407 149 0807	DIODE 1SS355-TE-17
D3626	407 149 0807	DIODE 1SS355-TE-17
D3627	407 149 0807	DIODE 1SS355-TE-17
D371	407 210 3300	DIODE RB161L-40-TE25
D372	407 210 3300	DIODE RB161L-40-TE25
D4831	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D4832	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D4834	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D4842TM	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D4843TM	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D5061	407 149 0807	DIODE 1SS355-TE-17
D5062	407 149 0807	DIODE 1SS355-TE-17
D5641TM	407 120 4503	DIODE DA204U T106
D6801	407 149 0807	DIODE 1SS355-TE-17
D6802	407 149 0807	DIODE 1SS355-TE-17
D6803	407 149 0807	DIODE 1SS355-TE-17
D6804	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D6806	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D6807	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D6808	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D6809	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D6811	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D7862	407 201 2701	DIODE RB051L-40-TE25
D7912	407 201 2701	DIODE RB051L-40-TE25
MISCELLANEOUS		
SW6801	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6802	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6803	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6804	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6806	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6807	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6808	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6809	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6811	645 026 2791	SWITCH,PUSH 1P-1TX1
X101	645 034 6118	OSC,CRYSTAL 20.250MHZ
X301	645 030 5863	OSC,CRISTAL,14.318MHZ
X4811	645 041 3841	OSC,CRYSTAL 4MHZ
X5331	645 053 7677	OSC,CERAMIC 503.0KHZ
X9861	645 037 5217	OSC,CERAMIC 6.00MHZ

ASSY,PWB,DDCON MY7A

TRANSISTOR

Q6701	405 174 1806	TR CPH3424-TL

INTEGRATED CIRCUIT

IC6701	409 506 8907	IC FA7700V-TE1

CAPACITOR

C6701	403 376 3109	ELECT 100U M 25V
	403 341 7507	ELECT 100U M 25V
C6702	403 314 6209	CERAMIC 2.2U K 16V
C6703	403 342 3300	CERAMIC 0.1U K 25V
C6704	403 113 3805	CERAMIC 1000P K 50V
C6705	403 342 3300	CERAMIC 0.1U K 25V
C6706	403 342 3300	CERAMIC 0.1U K 25V
C6707	403 390 6506	ELECT 68U M 25V
	403 332 2900	ELECT 68U M 25V
C6708	403 390 6506	ELECT 68U M 25V
	403 332 2900	ELECT 68U M 25V
C6709	403 390 6506	ELECT 68U M 25V
	403 332 2900	ELECT 68U M 25V

RESISTOR

R6700	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R6702	401 105 6100	MT-GLAZE 560K JA 1/16W
R6703	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R6704	401 218 4406	MT-GLAZE 1.2K FA 1/16W
R6705	401 036 8907	MT-GLAZE 5.6 JA 1/8W
R6706	401 212 0404	MT-GLAZE 680 FA 1/16W
R6707	401 226 8809	MT-GLAZE 20K FA 1/16W
R6708	401 105 0504	MT-GLAZE 1K JA 1/16W
R6709	401 105 2904	MT-GLAZE 22K JA 1/16W
R6711	401 105 2102	MT-GLAZE 18K JA 1/16W

COIL

L6701	645 033 7949	INDUCTOR,33U M

DIODE

D6701	407 210 5403	DIODE RB551V-30-TE-17

AV BOARD

610 314 4252 ASSY,PWB,R/CS. MY7A

CAPACITOR

C2901	403 283 6309	CERAMIC 1U Z 10V
C2902	403 157 6602	CERAMIC 470P K 50V
C2903	403 378 3107	CERAMIC 47U Z 6.3V

RESISTOR

R2901	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2902	401 105 0405	MT-GLAZE 100 JA 1/16W

Key No.	Part No.	Description
MISCELLANEOUS		
A2901	645 067 5546	UNIT,REMOCON RECEIVER
AV BOARD		
610 314 2296	**ASSY,PWB,AV MY7A**	
TRANSISTOR		
Q1031	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1051	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q1061	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q1071	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q2011	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2021	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2031	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3051	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q4011	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q4012	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q4013	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q4014	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q4016	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q4017	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q4061	405 134 5905	TR 2SA1037AK-T146-R

Key No.	Part No.	Description
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q4062	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q4071	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5201	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5203	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5242	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5251	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5261	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5271	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5273	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5281	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5282	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5283	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5284	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5286	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5287	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB

Key No.	Part No.	Description
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5288	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
INTEGRATED CIRCUIT		
IC4001	409 536 5600	IC AD8075ARU-REEL
IC4011	410 358 1503	IC TC74HC4053AFT(EL)
IC4061	409 400 7105	IC TC7W53FU-(TE12L)
IC4071	410 348 7508	IC TC7WT241FU(TE12L)
IC5201	409 530 7204	IC AN5870SB
CAPACITOR		
C1041	403 215 2904	CERAMIC 0.022U K 25V
C1091	403 215 2904	CERAMIC 0.022U K 25V
C2001	403 298 9609	CERAMIC 0.1U K 16V
C2002	403 394 1309	ELECT 100U M 6.3V
C2013	403 164 0204	CERAMIC 0.1U Z 25V
C2023	403 391 5409	ELECT 22U M 6.3V
C2033	403 391 5409	ELECT 22U M 6.3V
C2041	401 105 0702	MT-GLAZE 100K JA 1/16W
C2051	401 105 0702	MT-GLAZE 100K JA 1/16W
C3001	401 105 0702	MT-GLAZE 100K JA 1/16W
C3002	403 391 5102	ELECT 100U M 16V
C3011	401 105 0702	MT-GLAZE 100K JA 1/16W
C3051	403 157 3601	CERAMIC 100P J 50V
C3052	403 372 7507	CERAMIC 2.2U K 6.3V
C3053	403 283 6309	CERAMIC 1U Z 10V
C3061	403 157 3601	CERAMIC 100P J 50V
C3091	403 164 0204	CERAMIC 0.1U Z 25V
C4001	403 298 9609	CERAMIC 0.1U K 16V
C4002	403 298 9609	CERAMIC 0.1U K 16V
C4003	403 164 0204	CERAMIC 0.1U Z 25V
C4011	403 164 0204	CERAMIC 0.1U Z 25V
C4012	403 164 0204	CERAMIC 0.1U Z 25V
C4013	403 164 0204	CERAMIC 0.1U Z 25V
C4014	403 164 0204	CERAMIC 0.1U Z 25V
C4051	403 164 0204	CERAMIC 0.1U Z 25V
C4052	403 398 4108	ELECT 47U M 16V
C4053	403 164 0204	CERAMIC 0.1U Z 25V
C4054	403 394 1309	ELECT 100U M 6.3V
C4056	403 164 0204	CERAMIC 0.1U Z 25V
C4057	403 394 1309	ELECT 100U M 6.3V
C4061	403 283 6309	CERAMIC 1U Z 10V
C4062	403 283 6309	CERAMIC 1U Z 10V
C5201	403 323 8805	CERAMIC 2.2U Z 16V
C5202	403 323 8805	CERAMIC 2.2U Z 16V
C5203	403 323 8805	CERAMIC 2.2U Z 16V
C5204	403 323 8805	CERAMIC 2.2U Z 16V
C5206	403 283 6309	CERAMIC 1U Z 10V
C5207	403 314 5905	CERAMIC 0.47U K 16V
C5208	403 323 8805	CERAMIC 2.2U Z 16V
C5209	403 323 8805	CERAMIC 2.2U Z 16V
C5212	403 298 9609	CERAMIC 0.1U K 16V
C5213	403 314 5905	CERAMIC 0.47U K 16V
C5214	403 215 2201	CERAMIC 0.01U K 50V
C5219	403 207 0307	CERAMIC 1U Z 16V
C5221	403 398 4108	ELECT 47U M 16V
C5222	403 283 6309	CERAMIC 1U Z 10V
C5223	403 394 9305	ELECT 220U M 6.3V
C5226	403 207 0307	CERAMIC 1U Z 16V
C5241	403 164 0204	CERAMIC 0.1U Z 25V
C5243	403 323 8805	CERAMIC 2.2U Z 16V
C5244	403 164 0204	CERAMIC 0.1U Z 25V
RESISTOR		
R1001	401 260 4102	MT-GLAZE 75 JA 1/3W
R1002	401 105 0405	MT-GLAZE 100 JA 1/16W
R1011	401 260 4102	MT-GLAZE 75 JA 1/3W
R1012	401 105 0405	MT-GLAZE 100 JA 1/16W
R1021	401 260 4102	MT-GLAZE 75 JA 1/3W
R1022	401 105 0405	MT-GLAZE 100 JA 1/16W
R1031	401 105 5400	MT-GLAZE 47K JA 1/16W
R1032	401 105 0405	MT-GLAZE 100 JA 1/16W
R1034	401 105 0504	MT-GLAZE 1K JA 1/16W
R1036	401 105 0504	MT-GLAZE 1K JA 1/16W
R1037	401 105 0405	MT-GLAZE 100 JA 1/16W
R1038	401 105 0405	MT-GLAZE 100 JA 1/16W
R1041	401 105 5400	MT-GLAZE 47K JA 1/16W
R1042	401 105 0405	MT-GLAZE 100 JA 1/16W
R1048	401 105 0405	MT-GLAZE 100 JA 1/16W
R1051	401 260 4102	MT-GLAZE 75 JA 1/3W
R1052	401 113 4402	MT-GLAZE 75 JA 1/16W
R1053	401 105 2706	MT-GLAZE 220 JA 1/16W
R1056	401 105 0405	MT-GLAZE 100 JA 1/16W
R1061	401 260 4102	MT-GLAZE 75 JA 1/3W
R1062	401 113 4402	MT-GLAZE 75 JA 1/16W
R1063	401 105 2706	MT-GLAZE 220 JA 1/16W
R1066	401 105 0405	MT-GLAZE 100 JA 1/16W
R1071	401 260 4102	MT-GLAZE 75 JA 1/3W
R1072	401 113 4402	MT-GLAZE 75 JA 1/16W
R1073	401 105 2706	MT-GLAZE 220 JA 1/16W
R1076	401 105 0405	MT-GLAZE 100 JA 1/16W
R1081	401 105 5400	MT-GLAZE 47K JA 1/16W
R1082	401 105 0405	MT-GLAZE 100 JA 1/16W
R1084	401 105 0504	MT-GLAZE 1K JA 1/16W
R1091	401 105 5400	MT-GLAZE 47K JA 1/16W
R1092	401 105 0405	MT-GLAZE 100 JA 1/16W
R2002	401 105 0405	MT-GLAZE 100 JA 1/16W
R2006	401 035 4306	MT-GLAZE 10 JA 1/8W
R2012	401 260 4102	MT-GLAZE 75 JA 1/3W
R2013	401 105 5400	MT-GLAZE 47K JA 1/16W
R2014	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2016	401 105 0504	MT-GLAZE 1K JA 1/16W
R2018	401 105 5400	MT-GLAZE 47K JA 1/16W
R2022	401 260 4102	MT-GLAZE 75 JA 1/3W
R2023	401 105 5400	MT-GLAZE 47K JA 1/16W
R2024	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2026	401 105 0504	MT-GLAZE 1K JA 1/16W
R2028	401 105 5400	MT-GLAZE 47K JA 1/16W
R2032	401 260 4102	MT-GLAZE 75 JA 1/3W
R2033	401 105 5400	MT-GLAZE 47K JA 1/16W
R2034	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R2036	401 105 0504	MT-GLAZE 1K JA 1/16W
R2038	401 105 5400	MT-GLAZE 47K JA 1/16W
R2041	403 323 8805	CERAMIC 2.2U Z 16V
R2042	401 105 5400	MT-GLAZE 47K JA 1/16W
R2043	401 105 0405	MT-GLAZE 100 JA 1/16W
R2044	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2051	403 323 8805	CERAMIC 2.2U Z 16V
R2052	401 105 5400	MT-GLAZE 47K JA 1/16W
R2053	401 105 0405	MT-GLAZE 100 JA 1/16W
R2054	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3001	403 323 8805	CERAMIC 2.2U Z 16V
R3002	401 105 0405	MT-GLAZE 100 JA 1/16W
R3003	401 105 5400	MT-GLAZE 47K JA 1/16W
R3008	401 230 8000	MT-GLAZE 1K JA 1/3W

Key No.	Part No.	Description
R3011	403 323 8805	CERAMIC 2.2U Z 16V
R3012	401 105 0405	MT-GLAZE 100 JA 1/16W
R3013	401 105 5400	MT-GLAZE 47K JA 1/16W
R3018	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3022	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3023	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3051	401 105 0702	MT-GLAZE 100K JA 1/16W
R3052	401 105 0405	MT-GLAZE 100 JA 1/16W
R3053	401 105 0702	MT-GLAZE 100K JA 1/16W
R3054	401 105 0702	MT-GLAZE 100K JA 1/16W
R3056	401 105 8005	MT-GLAZE 1M JA 1/16W
R3057	401 105 2904	MT-GLAZE 22K JA 1/16W
R3061	401 105 0702	MT-GLAZE 100K JA 1/16W
R3062	401 105 0405	MT-GLAZE 100 JA 1/16W
R3072	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3091	401 105 0405	MT-GLAZE 100 JA 1/16W
R4004	401 105 0504	MT-GLAZE 1K JA 1/16W
R4011	401 105 0504	MT-GLAZE 1K JA 1/16W
R4013	401 105 0504	MT-GLAZE 1K JA 1/16W
R4014	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4016	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4017	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4018	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4019	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4021	401 105 0306	MT-GLAZE 10 JA 1/16W
R4022	401 105 0306	MT-GLAZE 10 JA 1/16W
R4023	401 105 0603	MT-GLAZE 10K JA 1/16W
R4024	401 105 5400	MT-GLAZE 47K JA 1/16W
R4027	401 105 0405	MT-GLAZE 100 JA 1/16W
R4028	401 105 0405	MT-GLAZE 100 JA 1/16W
R4029	401 105 0504	MT-GLAZE 1K JA 1/16W
R4031	401 105 0504	MT-GLAZE 1K JA 1/16W
R4032	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4051	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4061	401 105 0603	MT-GLAZE 10K JA 1/16W
R4062	401 105 0405	MT-GLAZE 100 JA 1/16W
R4063	401 105 0405	MT-GLAZE 100 JA 1/16W
R4064	401 105 0405	MT-GLAZE 100 JA 1/16W
R4066	401 105 0603	MT-GLAZE 10K JA 1/16W
R4067	401 105 0702	MT-GLAZE 100K JA 1/16W
R4071	401 105 0405	MT-GLAZE 100 JA 1/16W
R4072	401 105 0405	MT-GLAZE 100 JA 1/16W
R4073	401 105 0504	MT-GLAZE 1K JA 1/16W
R4074	401 105 0603	MT-GLAZE 10K JA 1/16W
R4076	401 105 0504	MT-GLAZE 1K JA 1/16W
R4077	401 105 0405	MT-GLAZE 100 JA 1/16W
R5201	401 105 0405	MT-GLAZE 100 JA 1/16W
R5202	401 105 0405	MT-GLAZE 100 JA 1/16W
R5203	401 105 0405	MT-GLAZE 100 JA 1/16W
R5204	401 105 0504	MT-GLAZE 1K JA 1/16W
R5208	401 105 0405	MT-GLAZE 100 JA 1/16W
R5209	401 105 0504	MT-GLAZE 1K JA 1/16W
R5212	401 105 0405	MT-GLAZE 100 JA 1/16W
R5213	401 105 0405	MT-GLAZE 100 JA 1/16W
R5214	401 105 0504	MT-GLAZE 1K JA 1/16W
R5216	401 105 0405	MT-GLAZE 100 JA 1/16W
R5217	401 105 2706	MT-GLAZE 220 JA 1/16W
R5218	401 105 0405	MT-GLAZE 100 JA 1/16W
R5219	401 105 1303	MT-GLAZE 15 JA 1/16W
R5223	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5226	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5227	401 105 0504	MT-GLAZE 1K JA 1/16W
R5228	401 105 1303	MT-GLAZE 15 JA 1/16W
R5232	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5233	401 105 1303	MT-GLAZE 15 JA 1/16W
R5237	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5238	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
R5239	401 037 5103	MT-GLAZE 10 JA 1/10W
R5241	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R5242	401 105 0405	MT-GLAZE 100 JA 1/16W
R5243	401 105 3000	MT-GLAZE 220K JA 1/16W
R5244	401 105 0504	MT-GLAZE 1K JA 1/16W
R5246	401 105 0504	MT-GLAZE 1K JA 1/16W
R5247	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5248	401 105 0504	MT-GLAZE 1K JA 1/16W
R5249	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R5251	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5252	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5253	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5261	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5262	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5263	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5266	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R5271	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5272	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5273	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5276	401 105 0405	MT-GLAZE 100 JA 1/16W
R5281	401 105 0603	MT-GLAZE 10K JA 1/16W
R5282	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5283	401 105 5202	MT-GLAZE 470 JA 1/16W
R5284	401 105 5202	MT-GLAZE 470 JA 1/16W
R5286	401 105 5202	MT-GLAZE 470 JA 1/16W
R5287	401 105 5202	MT-GLAZE 470 JA 1/16W
R5288	401 105 0603	MT-GLAZE 10K JA 1/16W
R5289	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5291	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5293	401 105 5400	MT-GLAZE 47K JA 1/16W
R5296	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5297	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5298	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
COIL		
L1001	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L1002	645 068 8348	FILTER,EMI 400MHZ
L1011	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L1012	645 068 8348	FILTER,EMI 400MHZ
L1021	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L1022	645 068 8348	FILTER,EMI 400MHZ
L1031	645 068 8331	FILTER,EMI 200MHZ
L1041	645 068 8331	FILTER,EMI 200MHZ
L1051	645 068 8348	FILTER,EMI 400MHZ
L1061	645 068 8348	FILTER,EMI 400MHZ
L1071	645 068 8348	FILTER,EMI 400MHZ
L1081	645 068 8331	FILTER,EMI 200MHZ
L1091	645 068 8331	FILTER,EMI 200MHZ
L2001	645 068 8324	FILTER,EMI 20MHZ
L2011	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L2012	645 068 8317	FILTER,EMI 100MHZ
L2021	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L2022	645 068 8317	FILTER,EMI 100MHZ
L2031	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L2032	645 068 8317	FILTER,EMI 100MHZ
L2041	645 068 8324	FILTER,EMI 20MHZ
L2051	645 068 8324	FILTER,EMI 20MHZ
L3002	645 068 8324	FILTER,EMI 20MHZ
L3011	645 068 8324	FILTER,EMI 20MHZ
L3051	645 068 8324	FILTER,EMI 20MHZ
L3061	645 068 8324	FILTER,EMI 20MHZ
L3081	645 068 8324	FILTER,EMI 20MHZ
L3082	645 068 8324	FILTER,EMI 20MHZ
L4051	645 059 2133	INDUCTOR,3.3U M
L5251	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L5261	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L5271	401 035 4108	MT-GLAZE 0.000 ZA 1/8W

Key No.	Part No.	Description
DIODE		
D2002	407 209 1201	ZD UDZS-TE-176.2B
D3051	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
K10A	645 009 8093	SOCKET,D-SUB 15P
K10B	645 009 8093	SOCKET,D-SUB 15P
K20A	645 038 4462	JACK,RCA-3
K20B	610 010 8295	SOCKET,DIN 4P
K30A	645 000 2571	JACK,PHONE D8.0
K30B	645 017 1680	JACK,PHONE D3.6
K40A	645 028 0382	SOCKET,USB 4P
K40B	645 048 6739	SOCKET,DIN 8P
SC1001	645 055 3202	SURGE-ABSORBER
SC1011	645 055 3202	SURGE-ABSORBER
SC1021	645 055 3202	SURGE-ABSORBER
SC1031	645 055 3202	SURGE-ABSORBER
SC1041	645 055 3202	SURGE-ABSORBER
SC1051	645 055 3202	SURGE-ABSORBER
SC1061	645 055 3202	SURGE-ABSORBER
SC1071	645 055 3202	SURGE-ABSORBER
SC1081	645 055 3202	SURGE-ABSORBER
SC1091	645 055 3202	SURGE-ABSORBER
SC2001	645 055 3202	SURGE-ABSORBER
SC2011	645 055 3202	SURGE-ABSORBER
SC2021	645 055 3202	SURGE-ABSORBER
SC2031	645 055 3202	SURGE-ABSORBER
SC2041	645 055 3202	SURGE-ABSORBER
SC2051	645 055 3202	SURGE-ABSORBER
SC3001	645 055 3202	SURGE-ABSORBER
SC3011	645 055 3202	SURGE-ABSORBER
SC3051	645 055 3202	SURGE-ABSORBER
SC3061	645 055 3202	SURGE-ABSORBER
SC3071	645 055 3202	SURGE-ABSORBER
SC3072	645 055 3202	SURGE-ABSORBER
SC3073	645 055 3202	SURGE-ABSORBER
SC3081	645 055 3202	SURGE-ABSORBER
SC3082	645 055 3202	SURGE-ABSORBER
SC3091	645 055 3202	SURGE-ABSORBER
SW50A	645 042 8104	SWITCH,PUSH 1P-1TX1

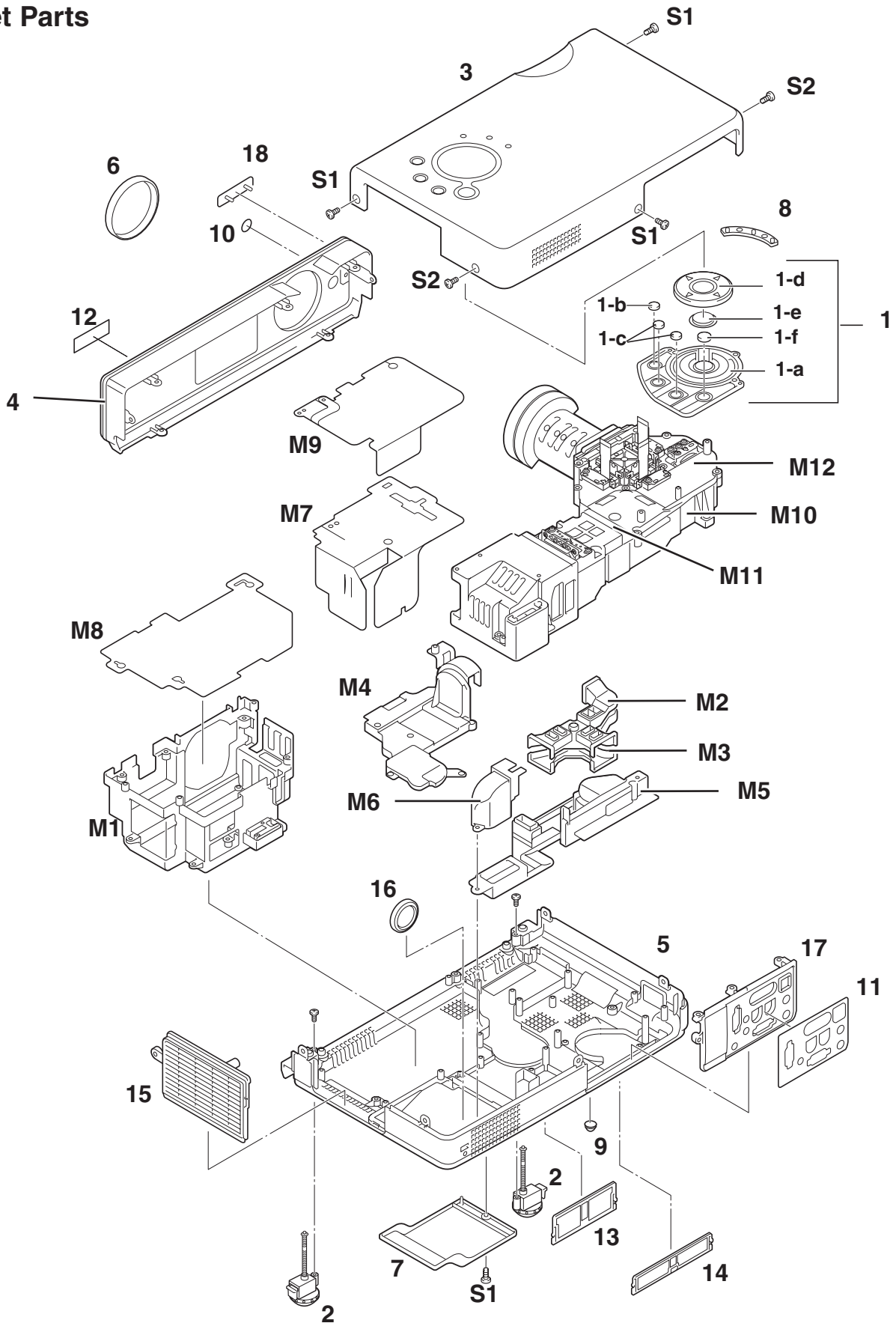
ACCESSORIES

⚠ AC CORD		
(US)	645 066 7145	CORD,POWER-3.0MK,US
(EU)	645 066 7169	CORD,POWER-3.0MK,EU
(UK)	645 066 7152	CORD,POWER-3.138MK,UK
OWNERS MANUAL		
(ENGLISH)	610 315 6095	OWNERS MANUAL- MY7A
(GERMANY)	610 315 6101	OWNERS MANUAL-MY7A-D
(FRENCH)	610 315 6118	OWNERS MANUAL-MY7A-F
(ITALY)	610 315 6125	OWNERS MANUAL-MY7A-I
(SPANISH)	610 315 6132	OWNERS MANUAL-MY7A-E
REMOTE CONROL		
	645 061 7904	ASSY,REMOCON CXPK
	610 308 3612	RC-BATTERY LID-CXPK
MISCELLANEOUS		
	645 057 2999	CABLE,INTERFACE VGA
	652 001 4626	CABLE,INTERFACE VGA
	610 296 6558	STRAP COMP-MW6P
or	610 296 6572	STRAP CAP MW6P

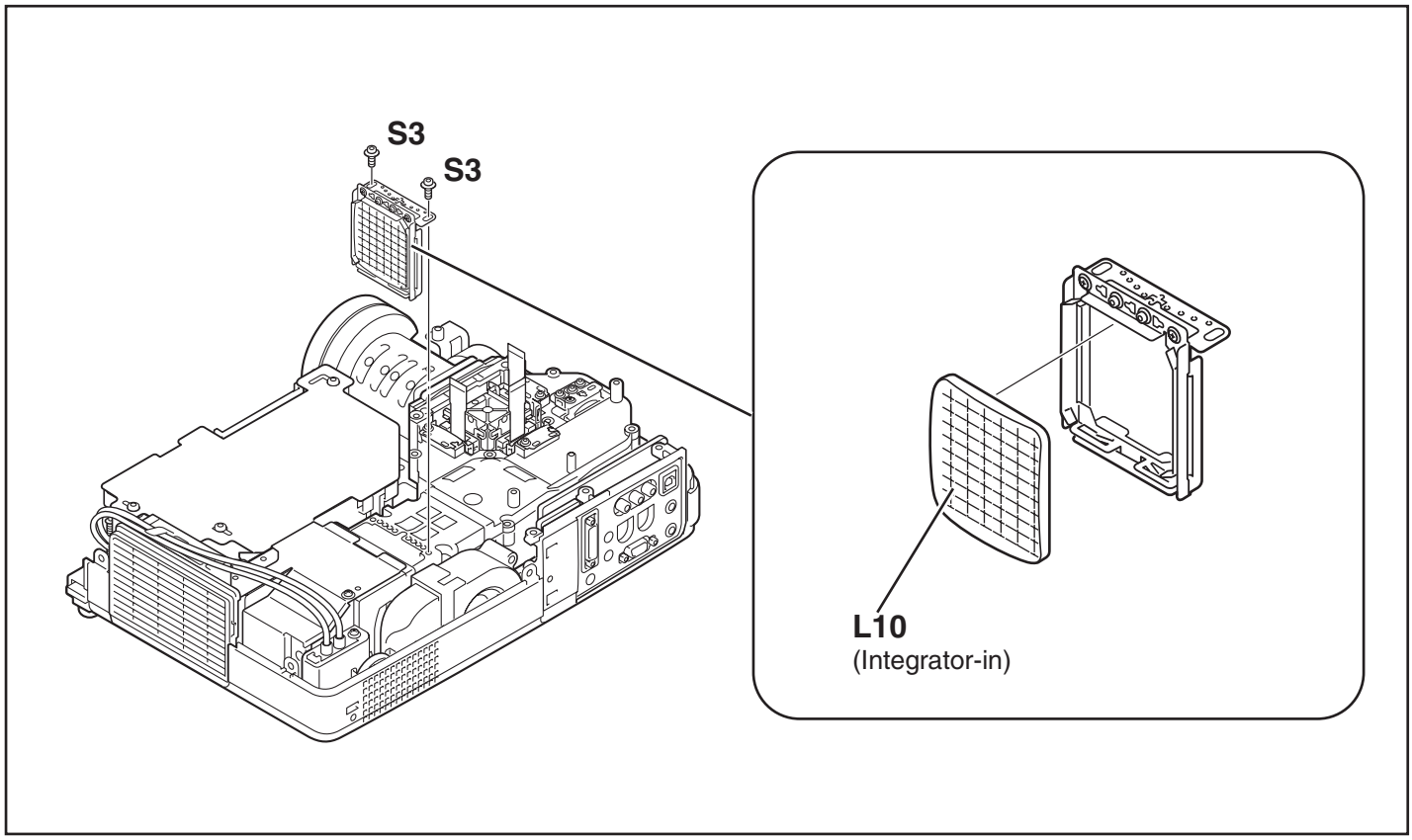
■ Mechanical Parts List

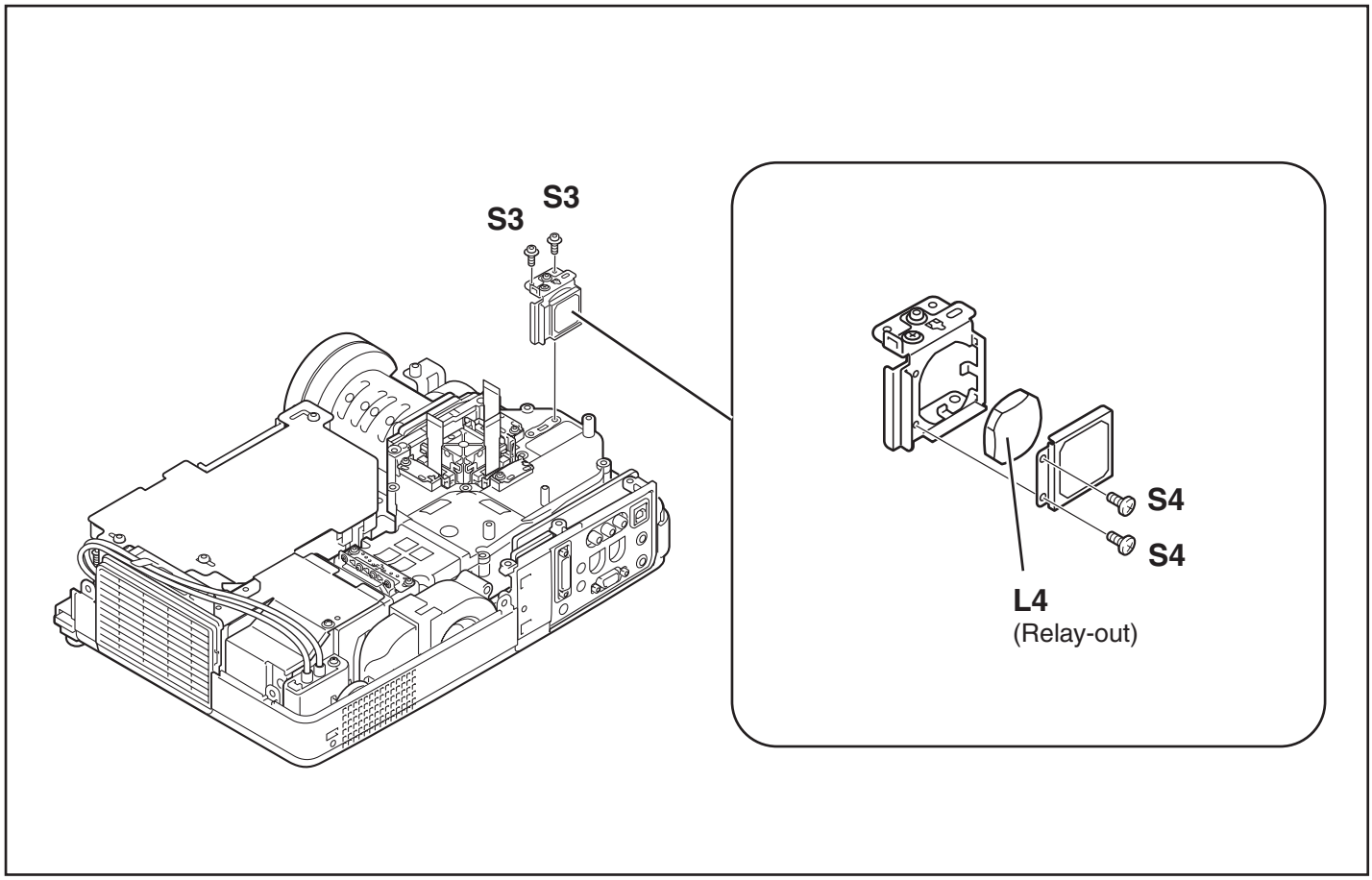
Note: Parts order must contain Chassis No., Part No., and Descriptions.

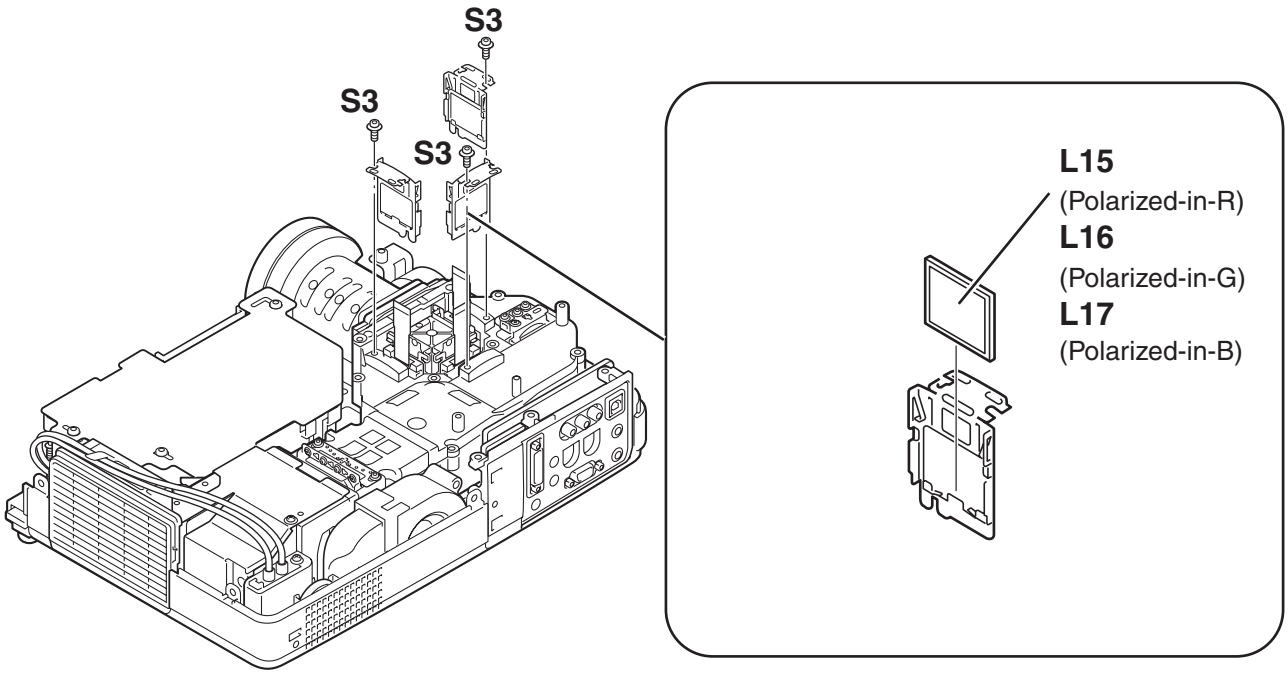
● Cabinet Parts

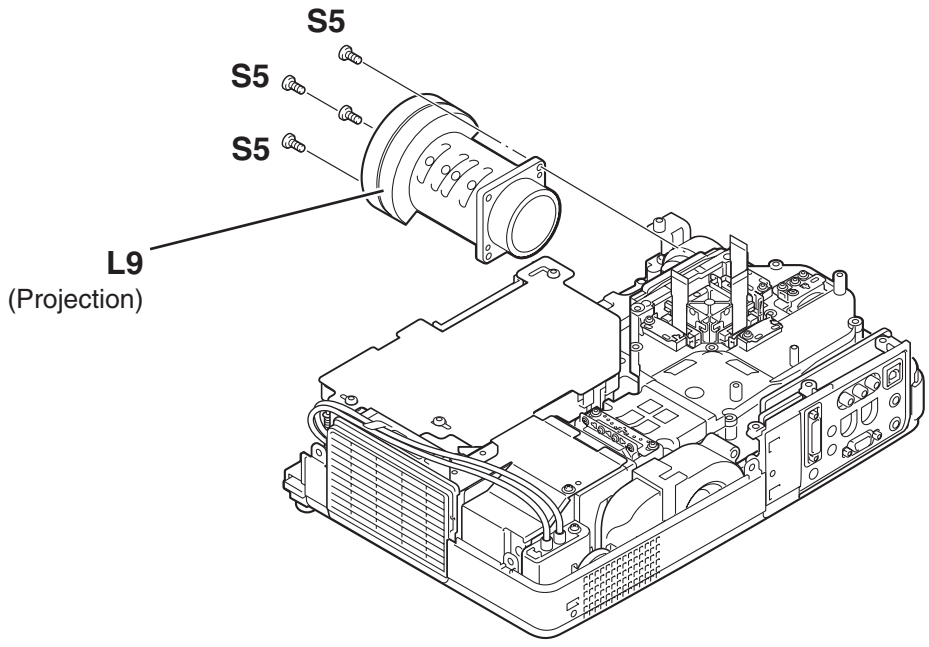


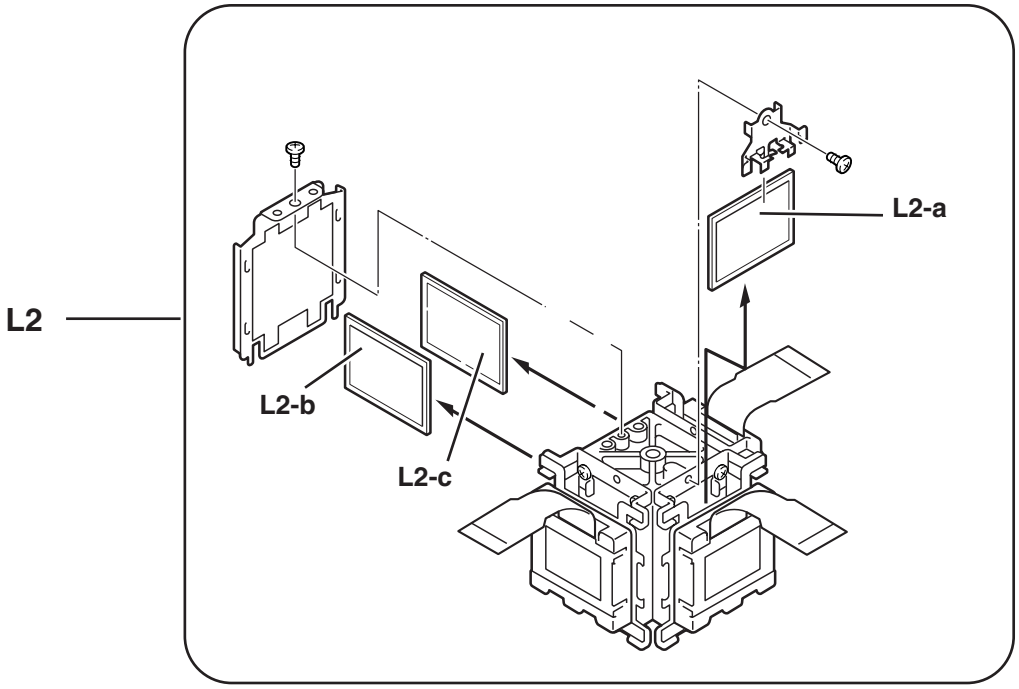
● Optical Parts

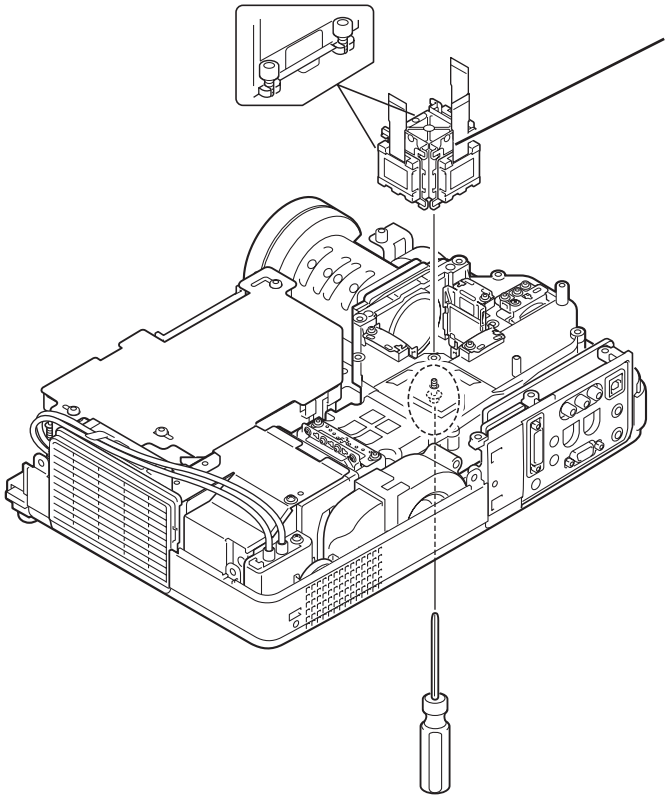


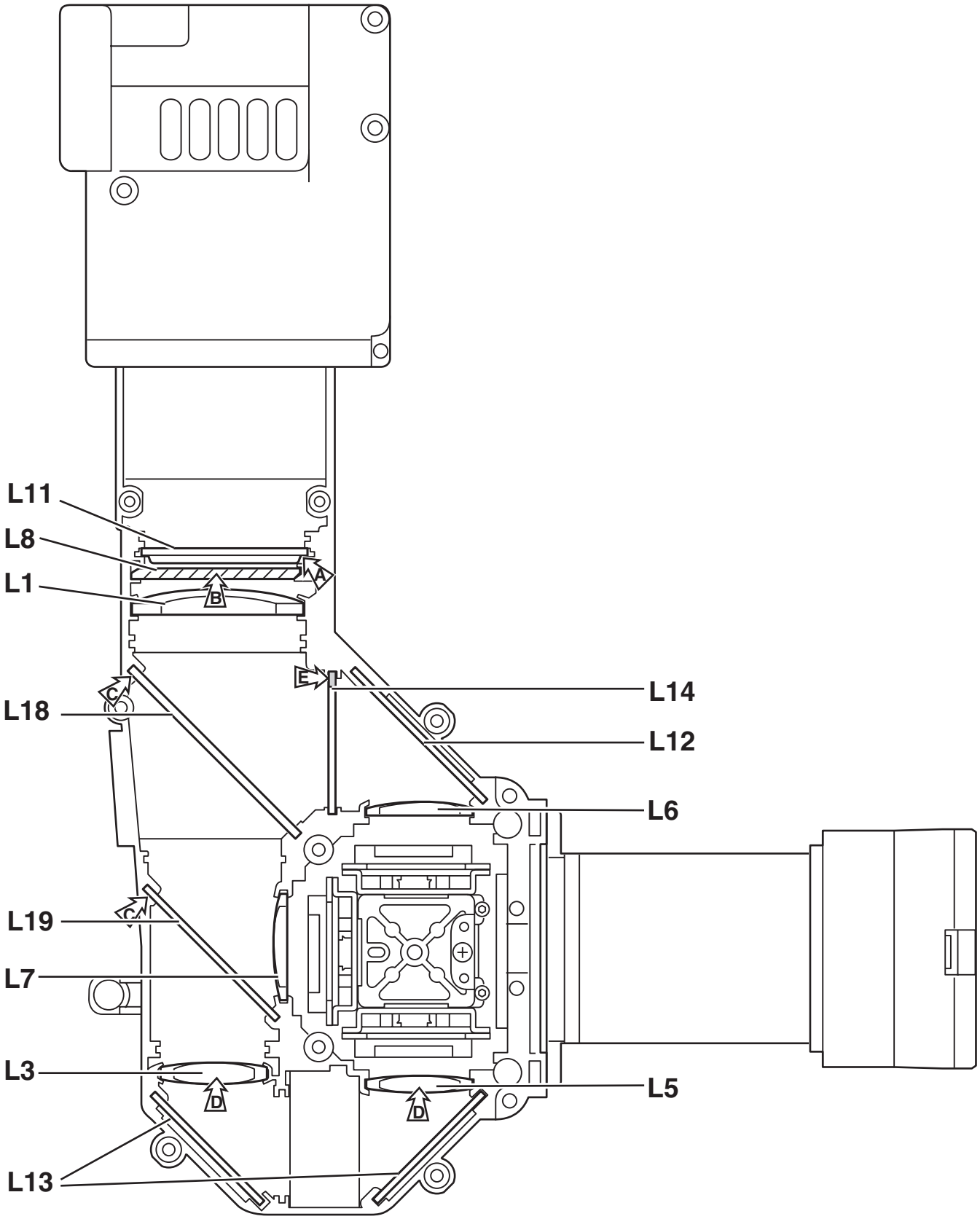



S3
S3
S3
L15
(Polarized-in-R)
L16
(Polarized-in-G)
L17
(Polarized-in-B)


S5
S5
S5
L9
(Projection)


L2
L2-a
L2-b
L2-c


L2
(Prism/LCD panel Ass'y)


L11
L8
L1
L18
L19
L7
L3
L13
L14
L12
L6
L5
A
B
C
C
D
D
E

Mechanical Parts List

Key No.	Part No.	Description
CABINET PARTS		
1	610 315 5500	ASSY,BUTTON-MY7A
	(Including Key No. 1-a to 1-f)	
1-a	610 307 7932	BUTTON-MA7A
1-b	610 293 8838	CAP BUTTON P-MW6A
1-c	610 315 5685	CAP BUTTON-S MY7A
1-d	610 307 8021	CAP BUTTON-S MA7A
1-e	610 315 5692	CAP BUTTON-M MY7A
1-f	610 315 5708	CAP BUTTON-A MY7A
2	610 315 5623	ASSY,STAND LEG-MY7A
3	610 315 5470	CABINET TOP SERVICE-MY7A
4	610 315 2554	CABINET FRONT-MY7A
5	610 311 3012	CABINET BOTTOM SERVICE-MA
6	610 311 4798	CAP LENS-MY3A
7	610 315 5494	COVER ,LP SERVICE-MY7A
8	610 307 8069	DEC INLAY LED-MA7A
9	610 295 3084	DEC LEG-MW6A
10	610 302 5612	DEC SHEET-M4JA
11	610 315 2561	DEC AV SHEET-MY7A
12	610 315 5814	DEC V MARK SHEET-MY7A
13	610 307 6317	FILTER BASE F-MA7A
14	610 307 6324	FILTER BASE B-MA7A
15	610 315 5852	GRILLE -MY7A
16	610 294 0732	HOLDER SPEAKER-MW6A
17	610 315 2585	PANEL AV-MY7A
18	645 047 8031	BADGE,SANYO*26.2X5.7L26.0
CHASSIS PARTS		
M1	610 316 4625	HOLDER POWER PWB B-MY7A
M2	610 311 4842	MOUNTING DUCT TOP-MT3A
M3	610 307 9202	MOUNTING DUCT BTM-MA7A
M4	610 307 9219	MOUNTING DUCT TOP FR-MA7A
M5	610 307 9226	MOUNTING DUCT TOP BK-MA7A
M6	610 307 9233	MOUNTING DUCT LP-MA7A
M7	610 313 8176	SPACER OP-MT3AM
M8	610 308 1595	SPACER SHEET*POWER T-MA7A
M9	610 313 6592	SPACER SHEET T-MT3AM
M10	610 306 9999	OPTICAL BASE BTM-MA7A
M11	610 307 0001	OPTICAL BASE TOP A-MA7A
M12	610 307 0018	OPTICAL BASE TOP B-MA7A
SCREWS		
S1	411 031 9304	SCR BIN 3X8
S2	411 031 8604	SCR BIN 3X6
S3	411 181 4303	BOLT HEX-SCT+SW+W 2.5X5
S4	411 030 5000	SCR BIN 2X3
S5	411 030 9008	SCR BIN 2.5X8

Key No.	Part No.	Description
OPTICAL PARTS		
L1	645 061 5474	LENS,CONDENSER(OUT)
L1	645 061 9663	LENS,CONDENSER(OUT)
L1	645 067 8905	LENS,CONDENSER(OUT)
L2	610 317 8011	ASSY,LCD PNL/PSM-MY7A
	(Including Key No. 2-a to 2-c)	
L2-a	645 069 2697	POLARIZED GLASS(OUT/G)S
L2-b	645 069 2703	POLARIZED GLASS(OUT/B)P
L2-c	645 065 6699	POLARIZED GLASS(OUT/R)P
L3	645 061 5504	LENS,RELAY(IN)
L3	645 061 9670	LENS,RELAY(IN)
L3	645 067 8929	LENS,RELAY(IN)
L4	645 061 5511	LENS,RELAY(OUT)
L4	645 061 9687	LENS,RELAY(OUT)
L4	645 067 8936	LENS,RELAY(OUT)
L5	645 061 5528	LENS,CONDENSER(R)
L5	645 061 9694	LENS,CONDENSER(R)
L5	645 067 8943	LENS,CONDENSER(R)
L6	645 062 5213	LENS,CONDENSER(B)
L6	645 061 5498	LENS,CONDENSER(B)
L7	645 062 5220	LENS,CONDENSER
L7	645 041 5036	LENS,CONDENSER
L7	645 067 8912	LENS,CONDENSER
L8	645 061 5634	ASSY,PRISM(PBS)
L8	645 062 5206	ASSY,PRISM(PBS)
L9	645 061 3944	LENS,PROJECTION
L10	645 061 5450	LENS,INTEGRATOR(IN)
L11	645 061 5467	LENS,INTEGRATOR(OUT)
L12	645 061 5559	MIRROR(B)
L12	645 067 8950	MIRROR(B)
L13	645 067 8967	MIRROR(R)
L13	645 061 5566	MIRROR(R)
L14	645 065 6972	OPTICAL FILTER(UV CUT)
L15	645 063 0620	POLARIZED GLASS(IN/R)DM
L16	645 070 1184	POLARIZED GLASS(IN/G)S
L17	645 070 1191	POLARIZED GLASS(IN/B)P
L18	645 061 5603	DICHROIC MIRROR (B)
L19	645 068 1929	DAICHROIC MIRROR(G)

(MY7A) July 2004 BB 400 Printed in Japan

SANYO Electric Co., Ltd.

■ Diagrams & Drawings

Schematic Diagrams
Printed Wiring Board Drawings

Model	Chassis No.
PLC-XU41	MY7-XU4100

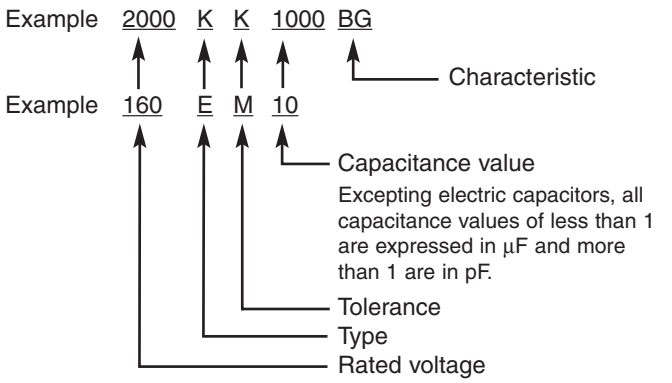
These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. MY7-XU4100, model PLC-XU41.
File with the service manual No. SM5110646-00.

Note:
All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

■ Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading


Example 2000 K K 1000 BG
Characteristic
Example 160 E M 10
Capacitance value
Excepting electric capacitors, all capacitance values of less than 1 are expressed in μF and more than 1 are in pF.
Tolerance
Type
Rated voltage

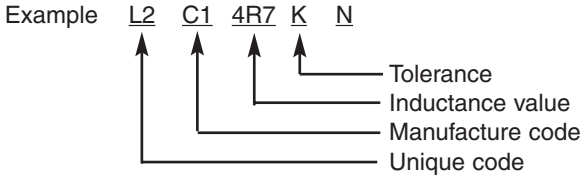
Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypromylar
B	Ceramic (semiconductor)
G	Metalized polyestel
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

Tolerance table

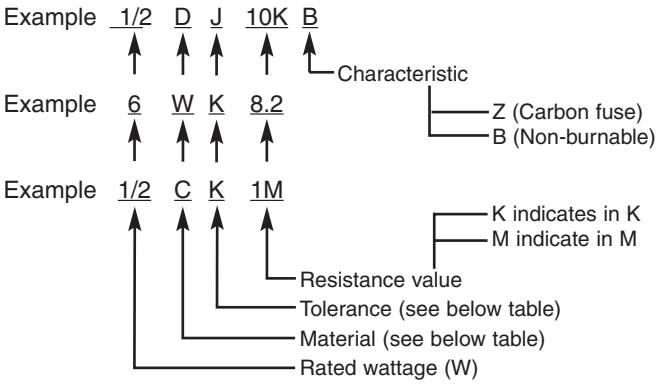
Mark	Tolerance
A	not specified
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
E	±2.5
H	±3
J	±5
K	±10
M	±20
N	±30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

Tolerance table

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

Diode

Mark	Type number
R	1S2076A,1S2473,1N4148
AA	1S2076A,1S2473,1SS133,1N4148

Transistor

(1) NPN type

Mark	Type number				
--	2SC536	2SC945A	2SC1815	2SC1740S	
AD	NF, NG	PA, QA	Y, GR	Q, R, S	
AE	NF, NG	PA, QA, RA	O, Y, GR	Q, R, S	

(2) PNP type

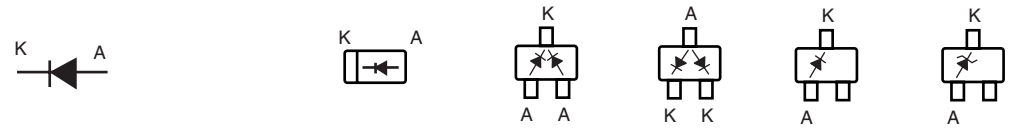
Mark	Type number				
--	2SA608	2SA564A	2SA1015	2SA933S	
AB	NF	R	Y, GR	R	
AC	NF	Q, R	O, Y, GR	Q, R	

(3) Chip type

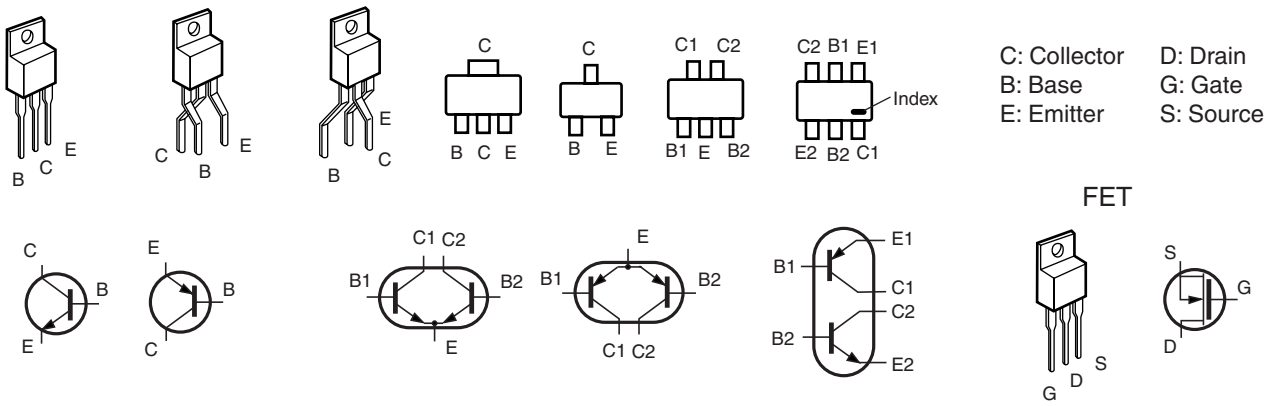
Mark	Type number				
--	2SA1179/N	2SA1037K	2SA1037AK	2SC2812/N	2SC2412K
AJ	M6, M7	R, S	R, S		
AH				L6, L7	R, S

■ Pin description of diode, transistor and IC

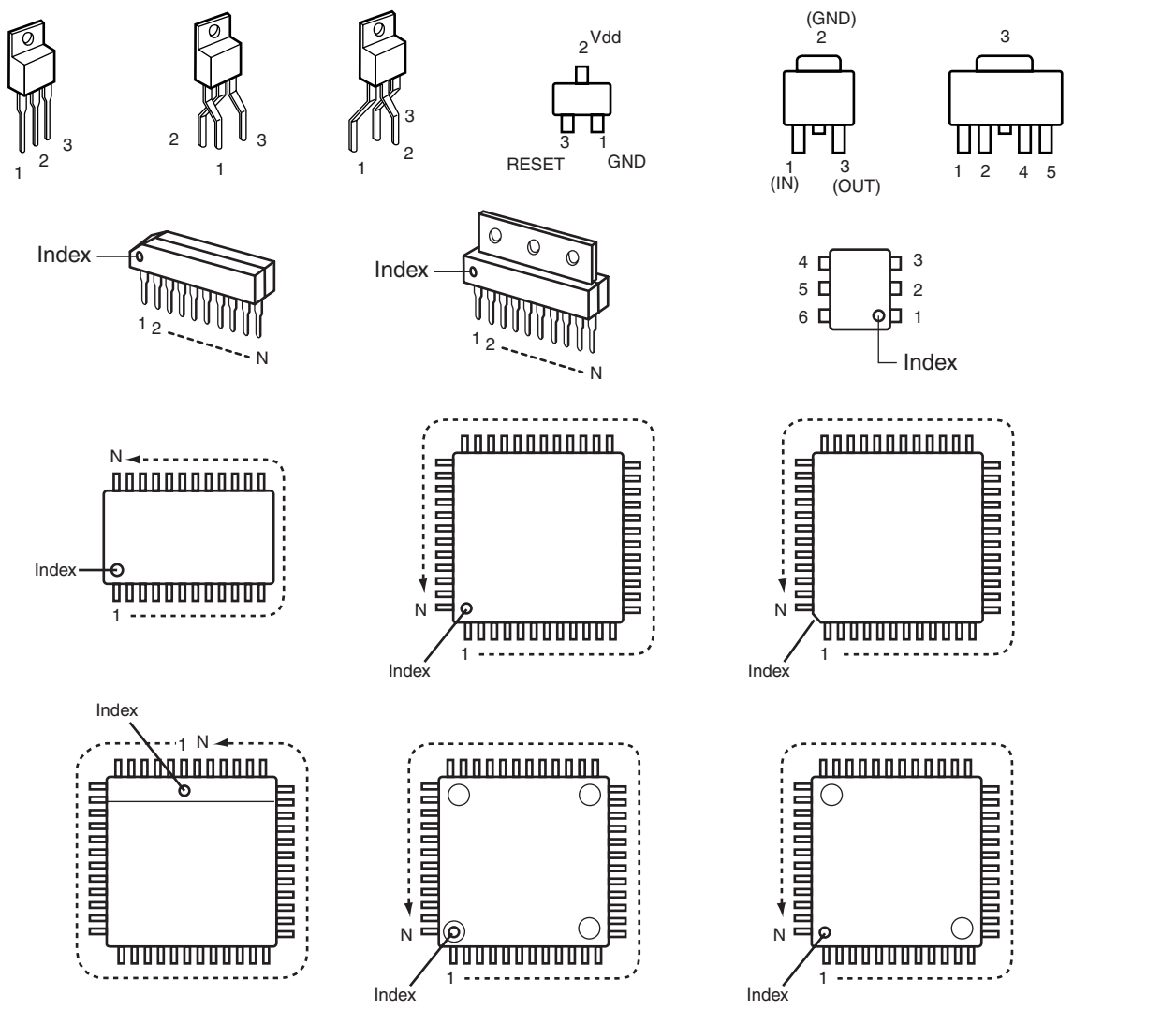
● Diode



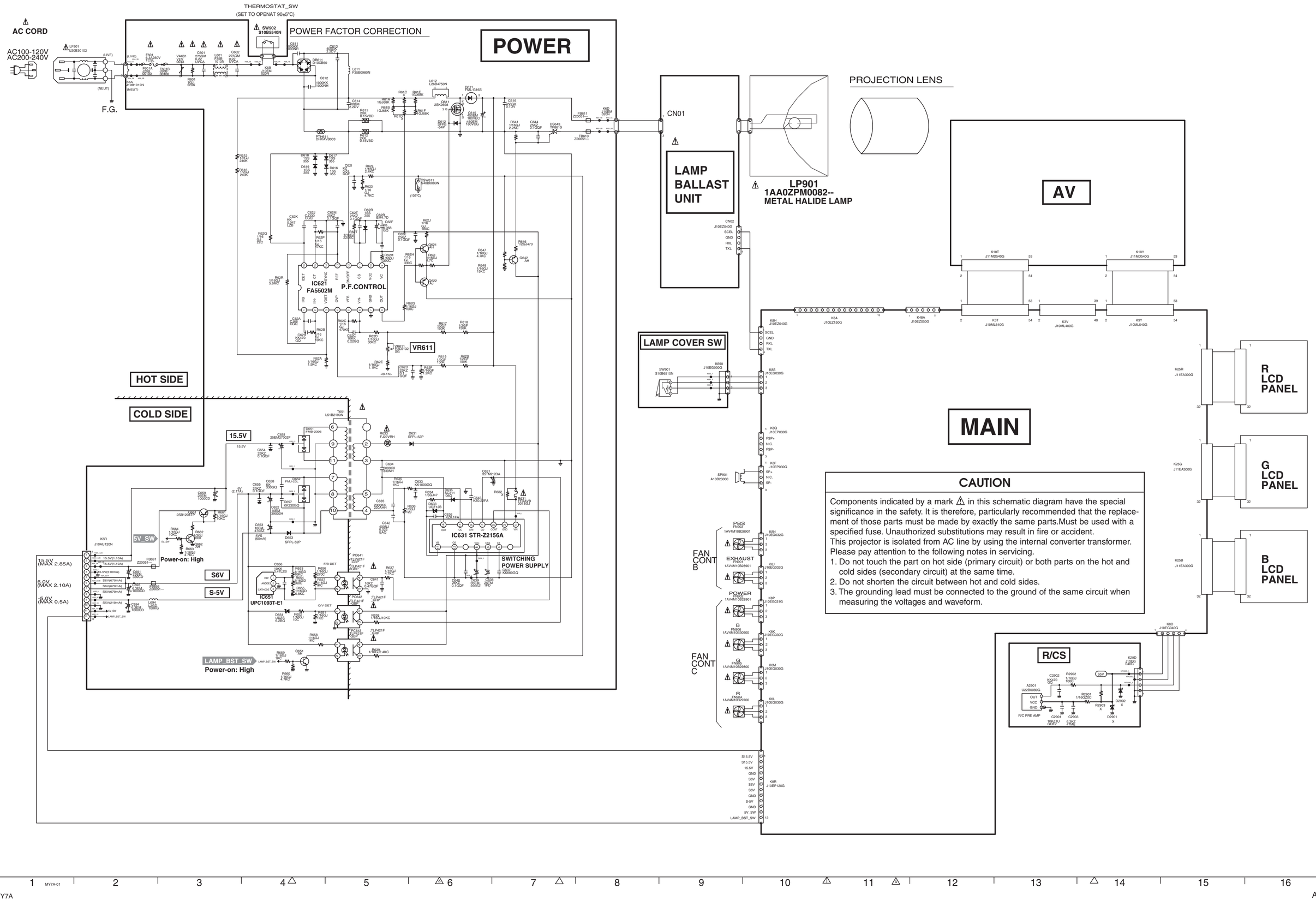
● Transistor/FET



● IC



■ Schematic Diagrams



AV

PC1
RGB/
YCbCr/
SCART

PC2
RGB-IN/
RGB-OUT

S-VIDEO

VIDEO

VIDEO
AUDIO_IN

PC
AUDIO_IN

AUDIO_OUT

USB
FUNCTION

CONTROL
PORT

RESET_SW

R/Cr

G/Y

B/Cb

IC5201
AN5870SB

RGB-SEC
/SYNC SEP.

IC4001
AD8075ARU-REEL

RGB-SW

IC4071
TC7WT241FU(TE12L)

IC4011
TC74HC4053AFT(EL)

SYNC-SW

IC4061
TC7WS3FU-(EL)

IC5301
BA7078AF-E2

RGB-SYNC

IC5302
TA1370FG

YUV-SYNC

IC5303
TC74LVX125FT

SYNC-SW

IC8201
AD9883AKSTZ-140

A/D

IC101
VPC3230D-QA-B3

VIDEO
DECODER

IC161
BA033FP-E2
;BA33BC0FP

3.3V REG.

IC301

MAIN 1/4

CABLE-SW
MNT
MONIT_OUT
H1-IN
H2-IN
V2-IN
SC_SW
HSYNC
GSYNC
CV_SCART
PC1/PC2_SW
S-SW
OUT-L
OUT-R
CABLE_SW
H_OUT
V_OUT
GSYNC
S_CHROMA
S_Y
VIDEO
VIDEO_L
VIDEO_R
PC_L
PC_R
OUT_DET
USB_VBUS
USB_D-
USB_D+
RXD1
TXD1
CPU_RESET
CGR/CR_AD
CGG/Y_AD
CGB/CB_AD
CGR/CR_M
CGG/Y_M
CGB/CB_M
TP8201R
TP8211G
TP8221B
TPGFBK
TP103
TPVVS
TPVHS
TPGVS
TPGHS
PC/AV_SW
P_SCLK2
P_SDA2
P_FAIL
VVS
VHS
S_CHROMA
CV_SCART
S_Y
VIDEO

SYSTEM CONTROL & SCAN CONVERTER

IC9401

<TOP_VIEW>

IC301
PW168A-10V

DVS (TO IC9401 4P)
DHS (TO IC9401 5P)
DCLK (TO IC9401 6P)
POWER_FAIL (TO IC9401 TURBO)

(FROM IC8201 AD9883) GB[0-7]
(TO IC8201 29P) GCOAST
(TO IC8201 38P) GBLKSPL
(FROM IC8201 AD9883) GG[0-7]
(FROM IC8201 66P) GFBK
GCLK
GHS (FROM IC5303 3P,6P)
GREF
GVS (FROM IC5303 8P,11P)
(FROM IC8201 31P)

IRM_ST
3L_EN
NMI
CS2
CS3
M_SCLK1
MUPO
LAMP_PWM
M_SCLK2
M_SDA1
M_SDA2
SCLK_PW
SDATA_PW
C/R_0
BHEN
CPU_RST
C/R_1
INTR (TO IC9861 14P)
CLRAMWE
CLRAMOE
ROMOE (TO IC801 28P)
ROMWE (TO IC801 11P)
CS0
WR
RD

IC1841
24LC32AT-I/SN
EEPROM

P_SCLK1
P_SDA1
P_SCLK2
P_SDA2
M_SCLK1
M_SDA1
M_SCLK2
M_SDA2
(TO IC8201 MICRONAS)
(TO IC9201 AD CONV)

P_SCLK1 → IC8811, IC8821, IC8831, IC7961
CONNECT 5V8Y ACTIVE IC
(FROM IC8811 TEMP SENSOR 1)
(FROM IC8821 TEMP SENSOR 2)
(FROM IC8831 TEMP SENSOR 3)
(FROM IC7961 DAC FOR FAN CONTROL)
(FROM IC8811 DAC)

P_SCLK2 → IC3531, IC5001, IC5302
(FROM IC3531 DAC FOR PANEL)
(FROM IC5302 TA1370)
(FROM IC5001 AUDIO)

LAMP_PWM

IC1821
TC74LCX541FT
BUFFER

3L_EN
SCLK_PW
SDATA_PW
IRM_RS
IRM_ST
SH_R_ST
SH_G_ST
SH_B_ST
TURBO_ST

SCLK (TO IC401 7P/7P, TO IC5001 5P/7P, TO IC5301 5P/7P)
SDATA
IRM_RST (TO IC401 95P,199P)
IRM_STB (TO IC401 94P)
SH_R_STB (TO IC561 10P)
SH_G_STB (TO IC531 10P)
SH_B_STB (TO IC501 10P)
TURBO_STB (TO IC9401 1P)

IC401, IC9401, IC501, IC531, IC561 → SCLK, SDATA

OPTION1
OPTION2
OPTION3
MUPO

IC1871
M51204FP-600C
COMPARATOR

P_FAIL
POWER_FAIL (TO IC9401 11HP)
IC5303 → GHS, GVS

IC1861
HD74LVC14T

IC351
TC7W126FU-(TE12L)

IC361
TC7WZ32FU

IC341
PST573IM

TPRESET
CPU_RESET (FROM K3Y AV)
ICE_RESET
NMI
NMI_PW

IC1811
TC74LCX541FT
BUFFER

LAMP_ERR (FROM IC4800)
S_SW (FROM K3Y AV)
OPTION1
OPTION2
OPTION3

ROMWS (FROM IC301 126P)
RD
WR
ICE_GND
ICE_CS
ROMOE (FROM IC301 188P)
PIXEL ICE

IC801
MBM29DL32TF70
FLASH ROM

ROMWE (FROM IC301 126P)
WP (FROM IC1803)
ROMOE (FROM IC301 188P)
ICE_3.3V
ICE_OE

IC9861
PDIUSBD12PW-118
USB CONTROLLER

CS1_B (FROM IC301 142P)
CS3
USB_EN (FROM IC301 142P)
INTR (TO IC301 238P)
USB_D+
USB_D-
USB_RST
WR
RD

IC9801
SP232AEN
RS-232C DRIVER/RECEIVER

TXD1 (TO K3Y AV)
RXD1 (FROM K3Y AV)
RXD (FROM IC301 47P)
TXD (TO IC301 181P)

IC392
SI-3025LSA-TL
2.5V_REG.

IC371
BA9743AFV-E2
REG. CONTROLLER

IC1801
TC74LCX574FT
IC1802
TC74LCX574FT
IC1803
TC74LCX574FT
IC1804
TC74LCX574FT
OUTPUT EXPANDER

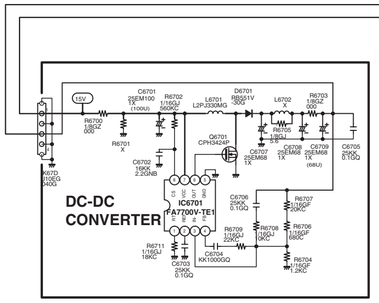
PWR_LED
TEMP_LED
LAMP_LED
READY_LED
SC_SW
MCLK_SW
IRM_RS (TO IC1821 4P, IC401 95P,199P)
SH_G_ST (TO IC1821 7P)
SH_B_ST (TO IC1821 8P)
TURBO_ST (TO IC1821 9P)
IC1821
FAN_SW1 (TO Q7801)
FAN_SW2 (TO Q7802)
ON_3.3V (TO IC5631)
PC_ON (TO K8R POWER)
LAMPDC_ON (TO K8R POWER)
WP (TO IC801)
"K8R"
PC1/PC2_SW (TO K3Y AV)
MONIT_OUT (TO K3T AV)
S/C/V_SW (TO Q101)
PC/AV_SW (TO IC5303)
CABLE_SW (TO K3Y AV)
FILT_480P/575P (TO K3Y AV)
CG_FILT (TO Q8231)
MUTE (TO Q9036)
MONIT_OUT
PC/AV_SW
CABLE_SW
MUTE

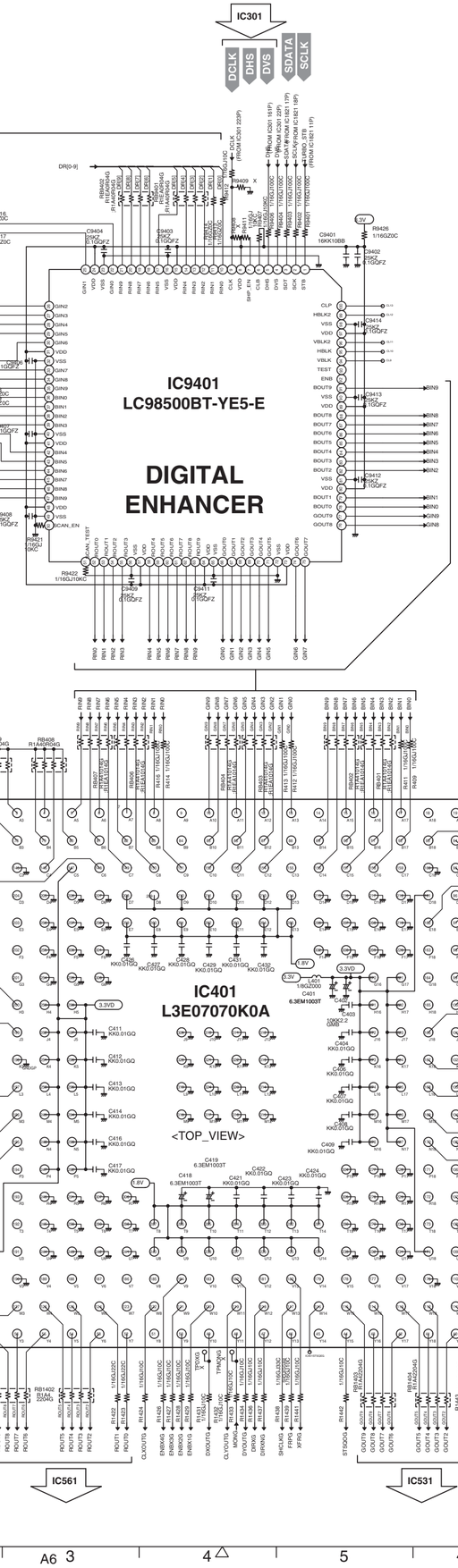
IC101
VHS
VVS
ON_15V
LAMP_POW
ON_5VA
IC301

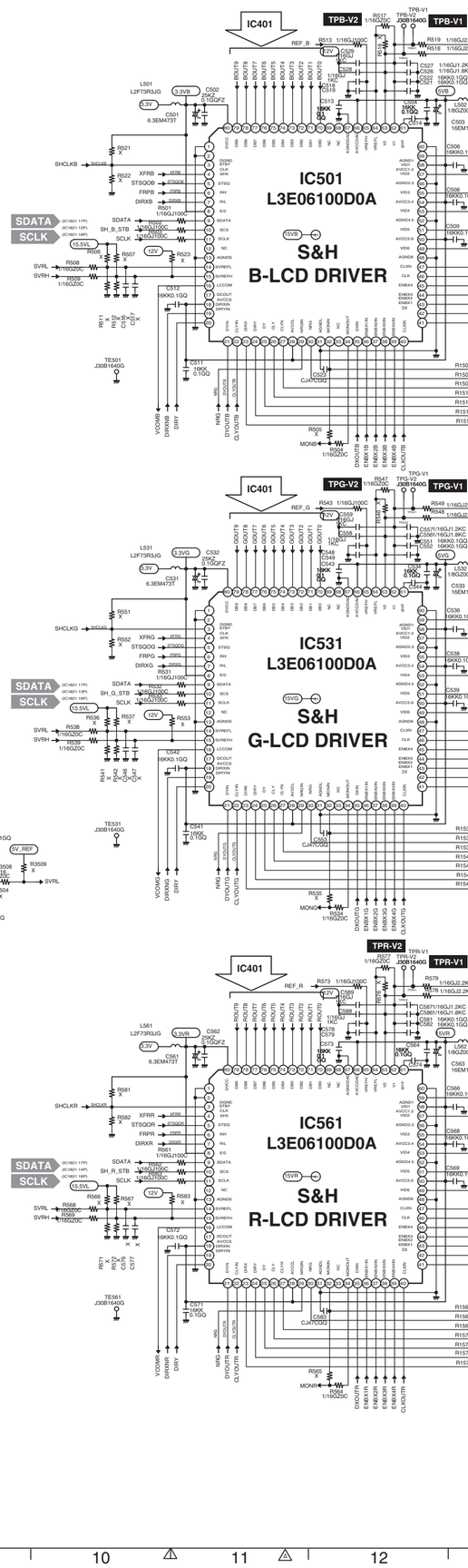
MAIN 2/4

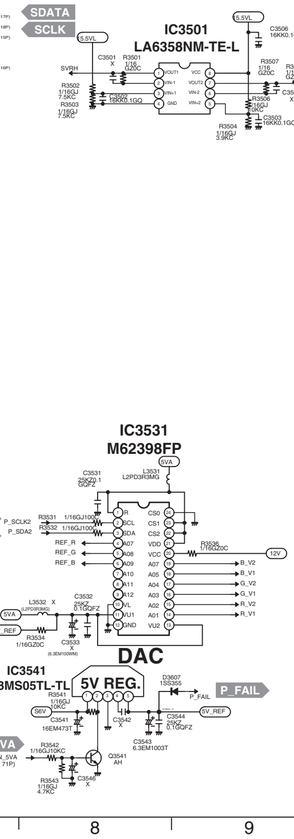
DDC

* This board is attached only for chassis No. MY7-XU4100 and not service supplied parts.









MAIN 4/4

LAMP CONTROL

INVERTER

AUDIO-SW VOLUME

AUDIO AMP.

FAN CONTROL

TEMP SENSOR 1 FOR OUTSIDE

TEMP SENSOR 2 FOR PANEL

TEMP SENSOR 3 FOR LAMP

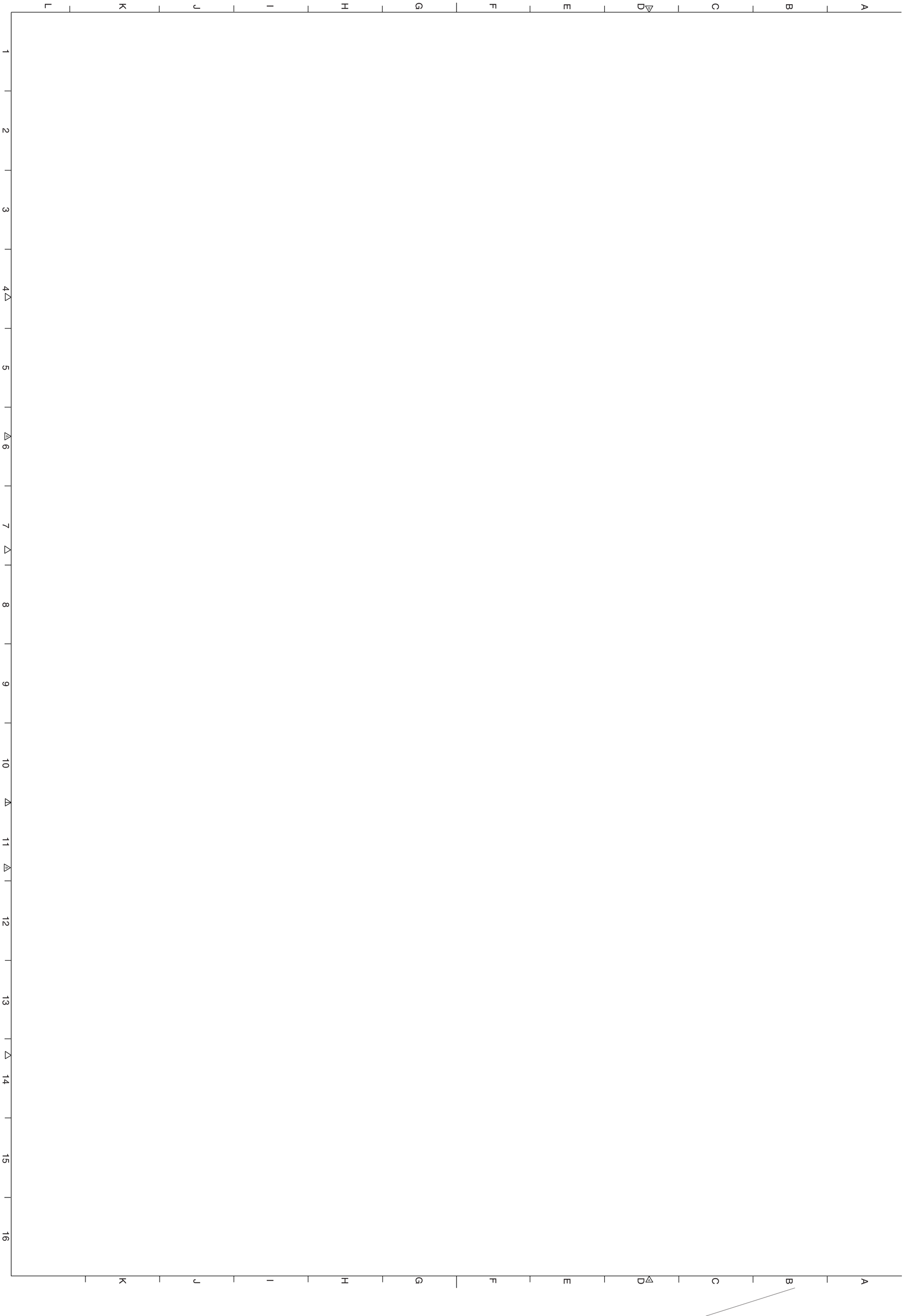
DAC

LED

KEY SW

SCH_MY7A

A7


A8
SCH_MY7A

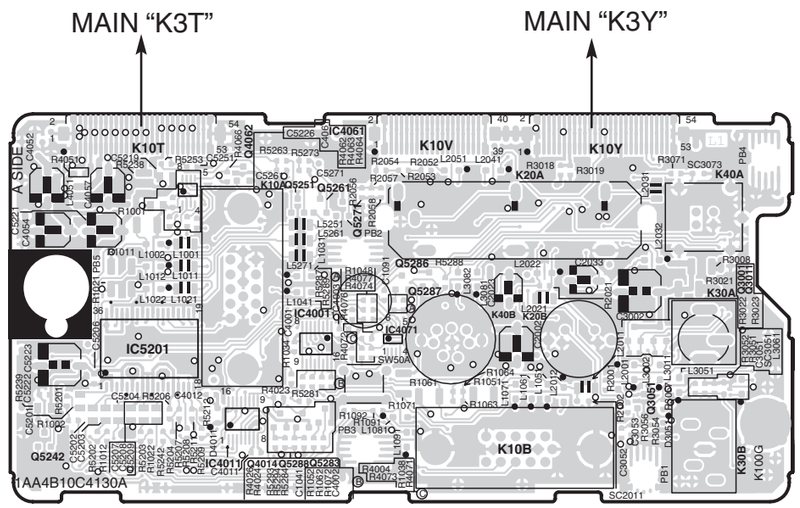
■ Printed Wiring Board Diagrams

⚠ CAUTION

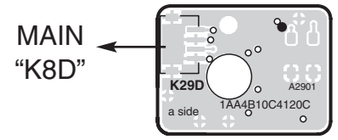
This projector is isolated from AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing

1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

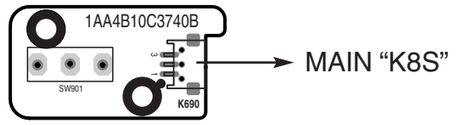
AV (SIDE:A)



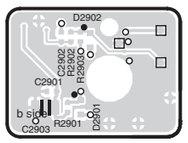
R/CS (SIDE:A)



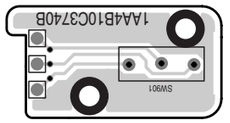
LAMP COVER SW (SIDE:A)



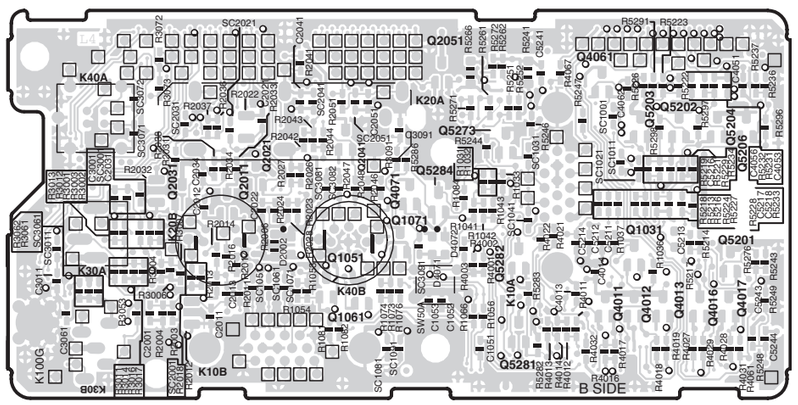
R/CS (SIDE:B)



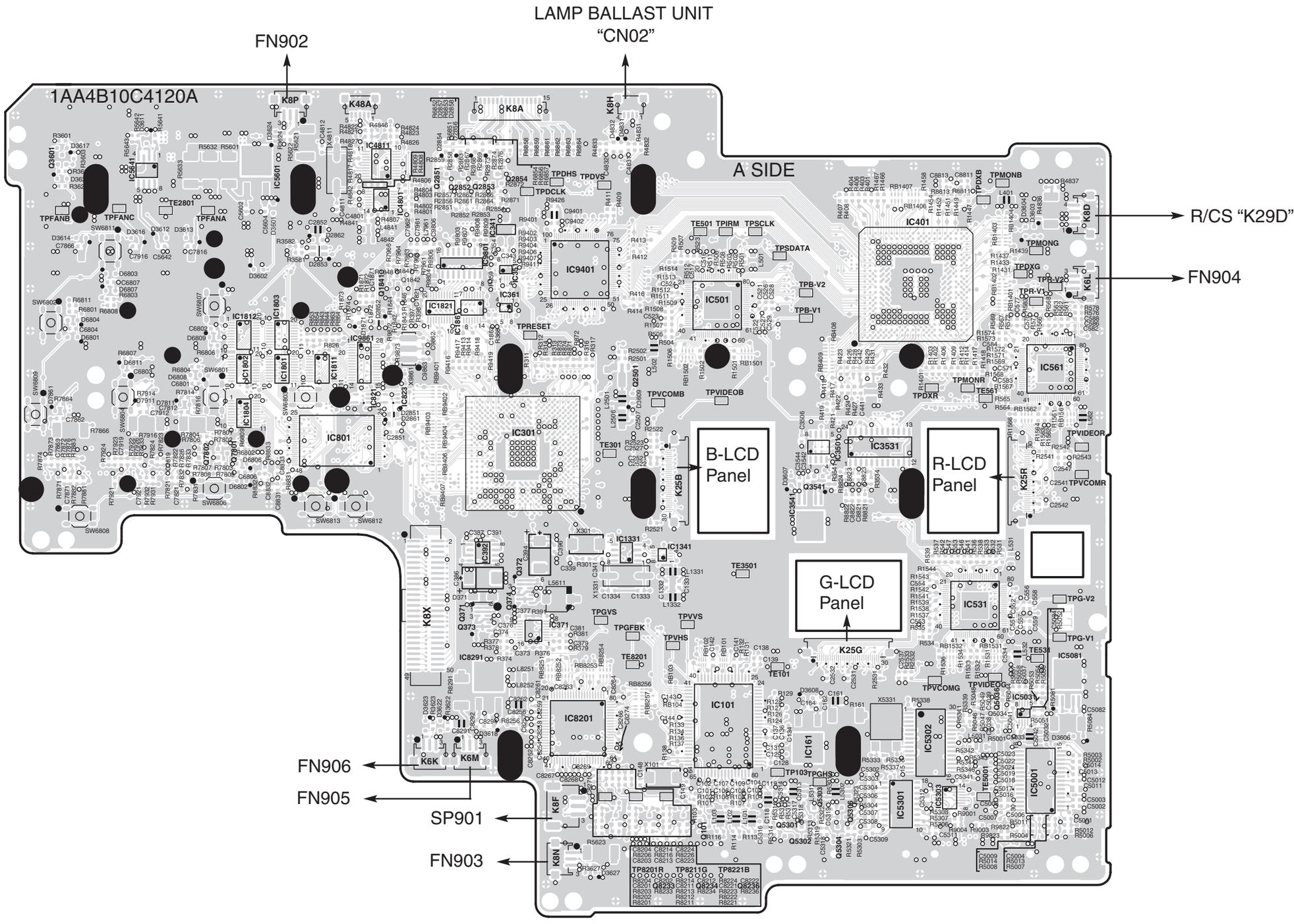
LAMP COVER SW (SIDE:B)



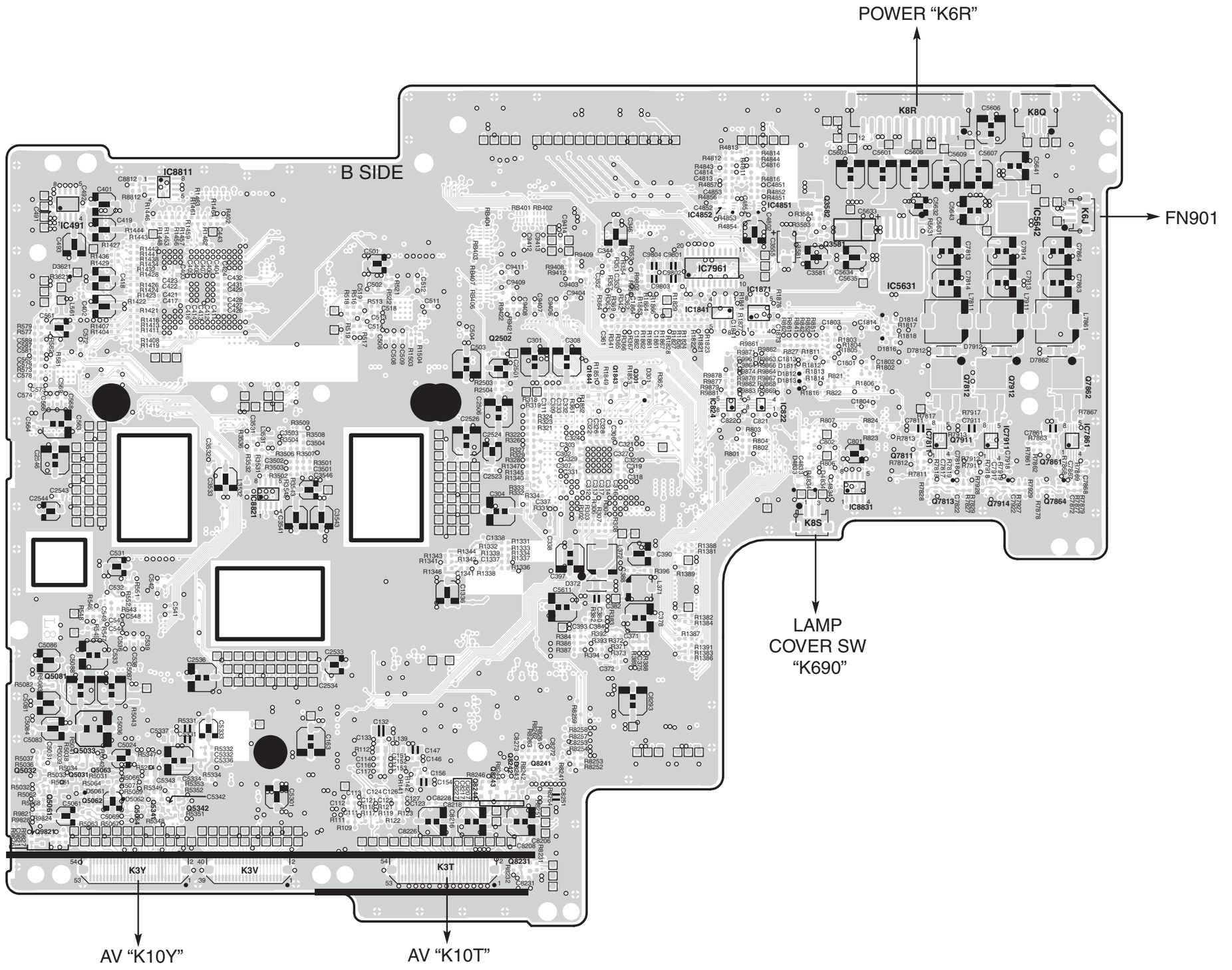
AV (SIDE:B)



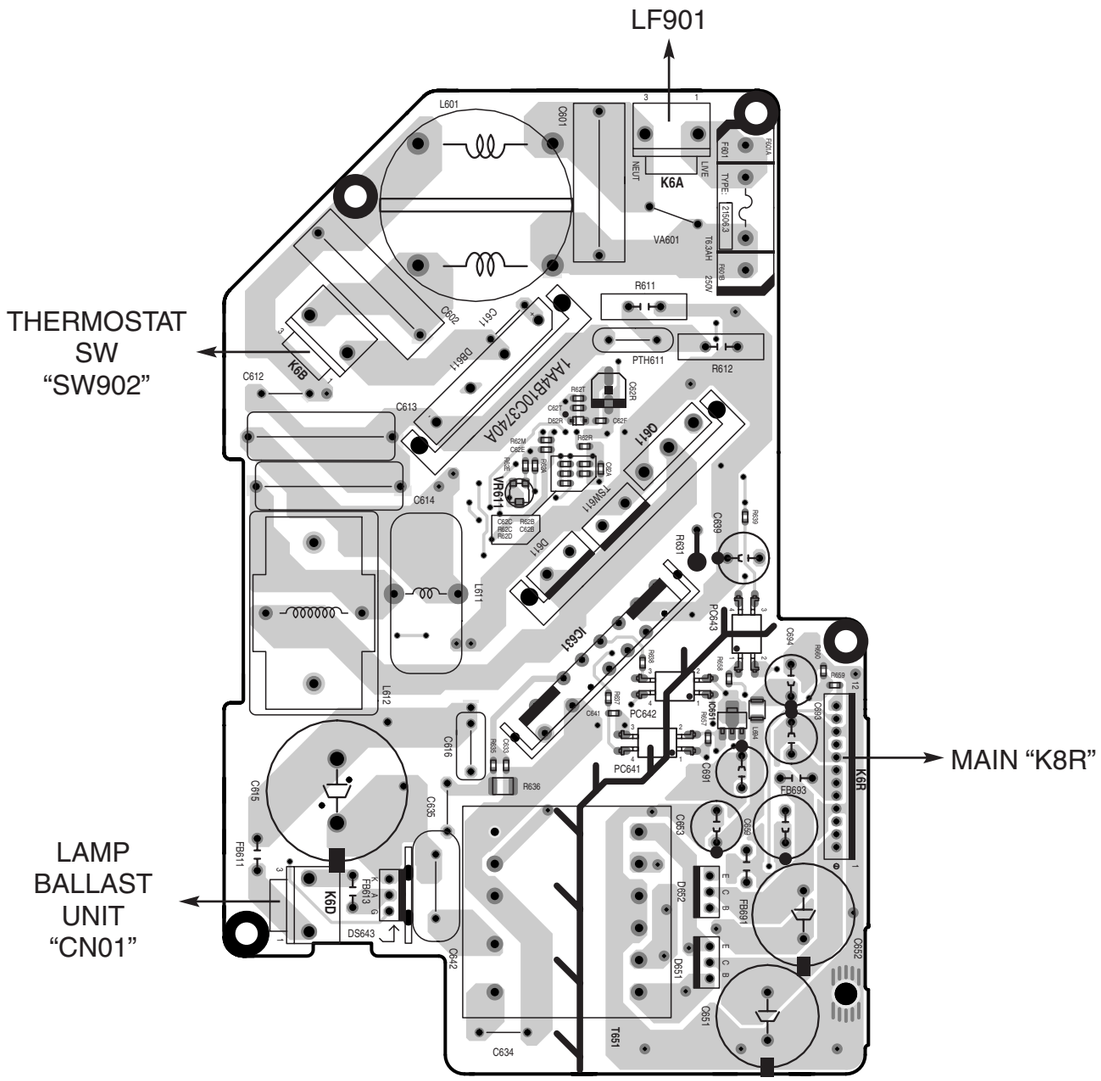
MAIN (SIDE:A)


LAMP BALLAST UNIT
"CN02"
FN902
1AA4B10C4120A
A SIDE
R/CS "K29D"
FN904
FN906
FN905
SP901
FN903
B-LCD Panel
R-LCD Panel
G-LCD Panel
K8P
K48A
K8A
K8H
K8D
K6L
K25B
K25R
K25G
K8X
K6K
K6M
K8F
K8N
IC401
IC501
IC561
IC9401
IC301
IC801
IC8201
IC101
IC161
IC5302
IC5301
IC5001
IC531
IC3531
IC1331
IC1341
IC4811
IC5641
IC5601
IC1811
IC1801
IC1803
IC1812
IC1802
IC1804
IC9861
IC361
IC1821
IC241
IC4801
IC371
IC8291
IC5081
IC5031
TPDHS
TPDVS
TPDCLK
TPSDATA
TPSCLK
TPIRM
TE501
TPB-V2
TPB-V1
TPRESET
TPVCOMB
TPVIDEOB
TPMONB
TPMONG
TPDXG
TPR-V2
TPR-V1
TPDXB
TPMONR
TPDXR
TPVIDEOR
TPVCOMR
TPVCOMG
TPVIDEOG
TPG-V2
TPG-V1
TPGVS
TPGFBK
TPVVS
TPVHS
TPGHS
TP103
TE3501
TE8201
TE101
TE531
TE561
TE5601
TE2801
TPFANB
TPFANC
TPFANA
TP8201R
TP8211G
TP8221B
SW6811
SW6809
SW6807
SW6803
SW6804
SW6801
SW6802
SW6805
SW6806
SW6808
SW6813
SW6812
Q3601
Q2851
Q2852
Q2853
Q2854
Q2501
Q3541
Q7802
Q7803
Q7804
Q7805
Q7806
Q373
Q371
Q101
Q5301
Q5304
Q5306
Q6006
Q8233
Q8234
Q8236
X301
X101
X1331
X5331
X4801
X5001
X3501
X3801

MAIN (SIDE:B)


POWER “K6R”
FN901
B SIDE
K8R
K8Q
K6J
K8S
LAMP
COVER SW
“K690”
AV “K10Y”
AV “K10T”
K3Y
K3V
K3T
IC8811
IC491
IC7961
IC1871
IC1841
IC5631
IC5642
IC4851
IC4852
IC8831
Q2502
Q5081
Q5033
Q5032
Q5031
Q5063
Q5062
Q5061
Q5342
Q9821
Q8231
Q8241
Q3582
Q3581
Q7812
Q7912
Q7862
Q7811
Q7911
Q7861
Q7813
Q7914
Q7864

POWER (SIDE:A)



POWER (SIDE:B)